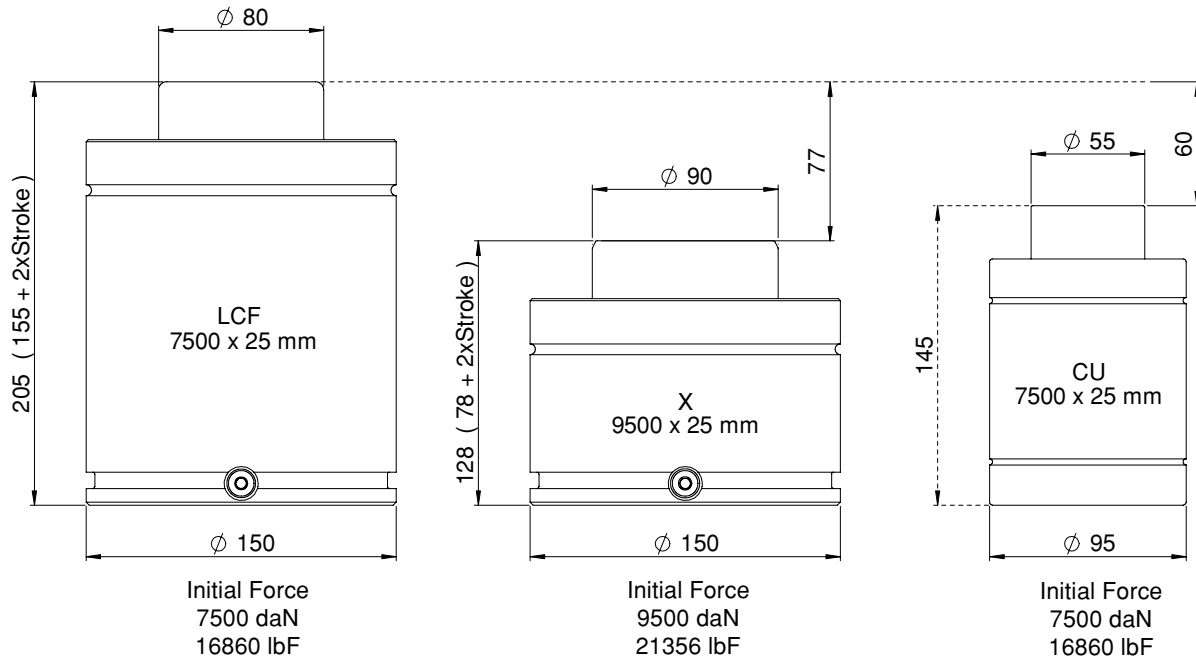
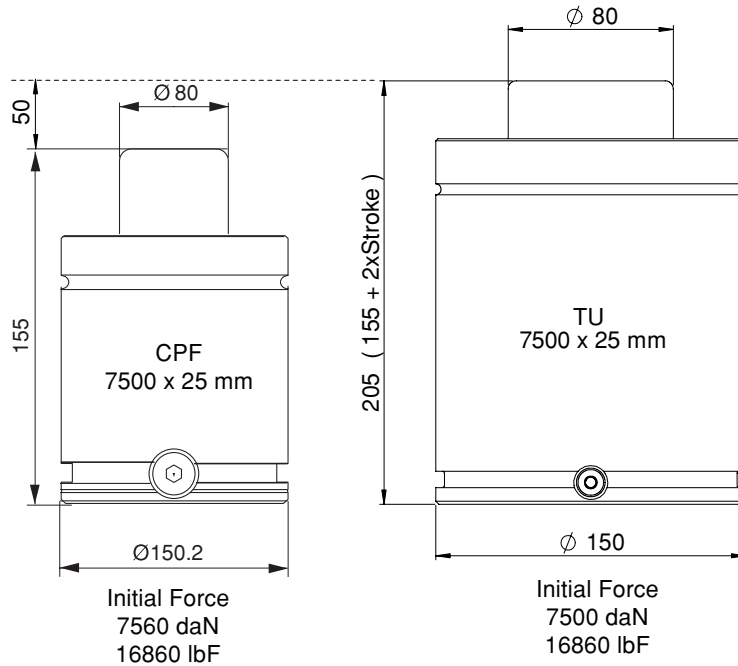







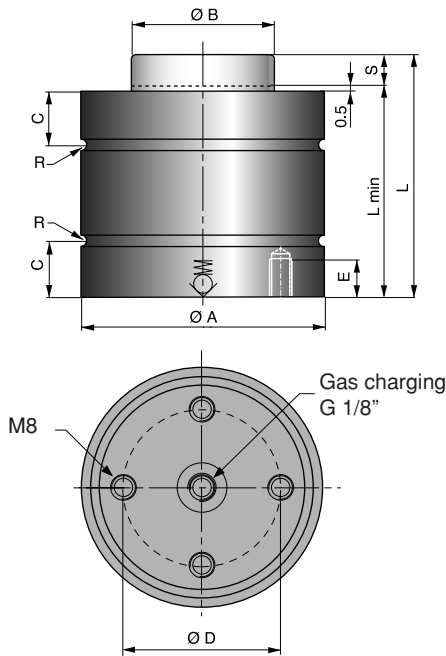


Overview - $7500 \leq F_{INIT} < 10000$



$7500 \leq F_{INIT} < 10000$

CU 7500		Page 2.9/2
X 9500		Page 2.9/4
TU 7500	 	Page 2.9/6
CPF 7500		Page 2.9/8
LCF 7500	 	Page 2.9/10



The CU gas spring is a very compact bore sealed gas spring, that gives a high force in a limited space. The max. frequency for the spring is 100 strokes/minute.

Springs with stroke lengths over 25 mm should always be attached to the tool, using a flange or the tapped holes in the bottom of the spring. We also recommend shorter stroke springs to be fastened for optimal service-life.

As an option, the CU springs can be delivered with a side-port plate for applications where a side port is needed, i.e. for use in hose systems.

Millimeters to Inches: mm ÷ 25.4 = inches

Kilograms to Pounds: Kg ÷ 0.45 = pounds

**Pounds Force to DecaNewtons:
LbF x 0.4448 = decaNewtons**

Order No.	S Stroke	Pounds Force (lbF) at 2175 psi		L ± 0.25	L min	Ø A ± 0.1	Ø B	C	Ø D	E	R	Gas vol. (l)	Weight (kg)
		Initial	End force**										
CU 7500-010	10	16860	23400	90	80	95.2	55	21	52	9	1.5	0.18	2.8
CU 7500-016	16		23400	116	100							0.30	3.2
CU 7500-025	25		24500	145	120							0.41	3.7
CU 7500-032	32*		23600	182	150							0.57	4.4
CU 7500-040	40*		24000	210	170							0.68	4.8
CU 7500-050	50*		23800	255	205							0.87	5.6

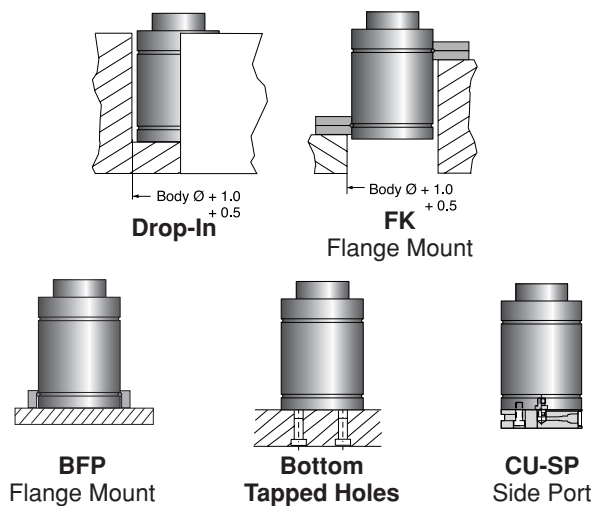
* = Should always be attached to the tool using the tapped holes in the bottom or a flange

** = at full stroke

BASIC INFORMATION

Pressure medium Nitrogen
 Max. charging pressure 150 bar/2175 psi
 Min. charging pressure 25 bar/360 psi
 Operating temperature 0 - 80°C/0 - 176°F
 Force increase by temperature..... ±0.3%/°C
 Recommended max strokes/min ~80-100
 Max piston rod velocity 0.5 m/s
 Rod surface Black Nitride
 Tube surface..... Black Nitride
 Repair kit CU 7500

MOUNTING POSSIBILITIES



FK-3000

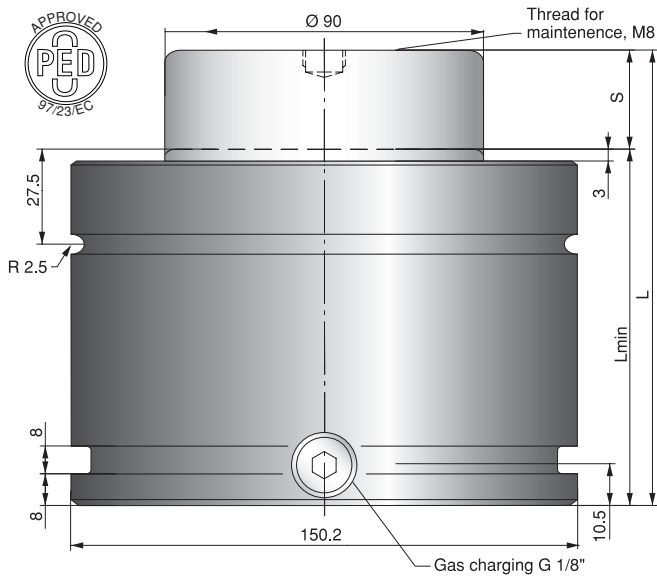
For model	Order No.	Ø a	b	c	Ø d	e	f
CU 7500	FK-3000	130	110	92	13.5	18	30

BFP-7500

For model	Order No.	a	b	Ø c	d	e
CU 7500	BFP-7500	110	92	13	27.5	28

CU-SP 7500

For model	Order No.	For U-groove mounts on CU-SP
CU 7500	CU-SP 7500	Refer to TU 3000



The Powerline gas springs are a new series.

These gas springs are our shortest, with more power to give you a great deal of force in a very small amount of space.

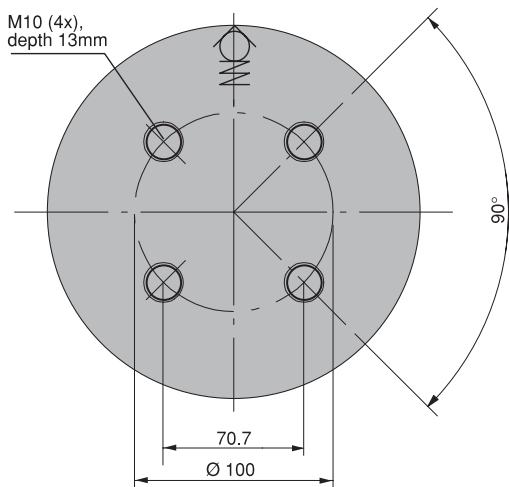
There is a side port for gas filling that can also be used to connect a hose system.

An upper C-groove, lower U-groove together with four M10 threaded holes allow various mounting possibilities using our standard mounts.

Millimeters to Inches: mm ÷ 25.4 = inches

Kilograms to Pounds: Kg ÷ 0.45 = pounds

**Pounds Force to DecaNewtons:
LbF x 0.4448 = decaNewtons**



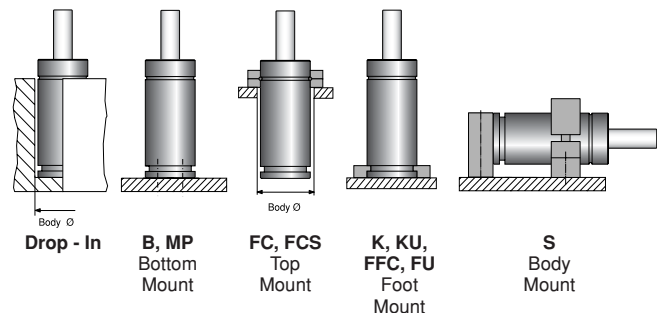
Order No.	S Stroke	Pounds Force (lbF) at 2175 psi		L ± 0.25	L min	Gas vol. (l)	Weight (kg)
		Initial	End force*				
X 9500-019	19	21400	30370	116	97	0.49	9.78
X 9500-025	25		31270	128	103	0.58	10.1
X 9500-032	32		31945	142	110	0.70	10.6
X 9500-038	38		32170	154	116	0.80	11.0
X 9500-050	50		32845	178	128	0.99	11.7
X 9500-063	63		33295	204	141	1.20	12.5
X 9500-075	75		33520	228	153	1.39	13.3
X 9500-080	80		33745	238	158	1.47	13.6
X 9500-100	100		33970	278	178	1.79	14.8
X 9500-125	125		34195	328	203	2.20	16.4

* = at full stroke

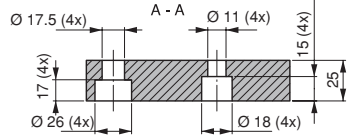
BASIC INFORMATION

Pressure medium Nitrogen
 Max. charging pressure 150 bar/2175 psi
 Min. charging pressure 25 bar/360 psi
 Operating temperature 0 - 80°C/0 - 176°F
 Force increase by temperature ±0.3%/°C
 Recommended max strokes/min ~ 50-100
 Max piston rod velocity 1.6 m/s
 Tube Black oxide
 Repair kit X 9500

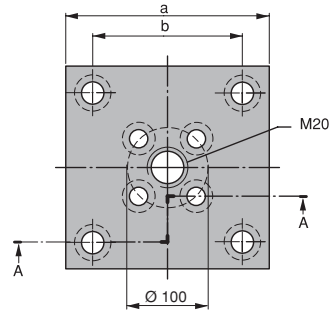
MOUNTING POSSIBILITIES



MP-7500

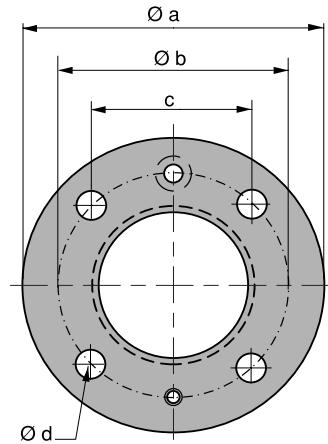
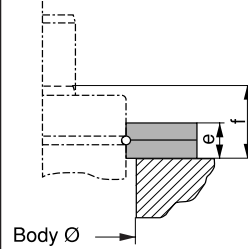


Note:
Comes complete with screws to mount gas spring.



Order No.	a	b
MP-7500	190	138

FC-7500

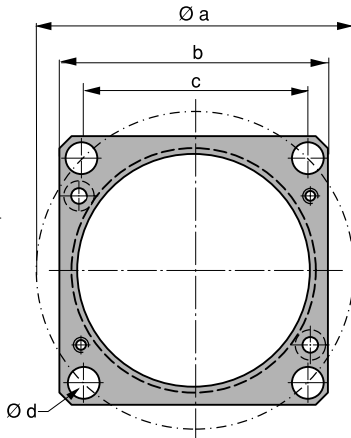
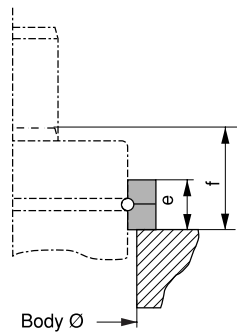


Order No.	Ø a	Ø b	c	Ø d	e	f
FC-7500	220	195	138	17.5	27	41

FCS-7500*

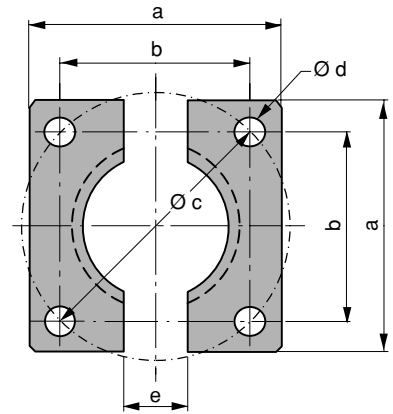
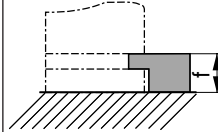


* = Reduced outer dimensions compared to ISO standard.



Order No.	Ø a	b	c	Ø d	e	f
FCS-7500	195	162	138	17.5	27	41

FFC-7500



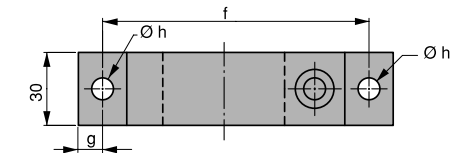
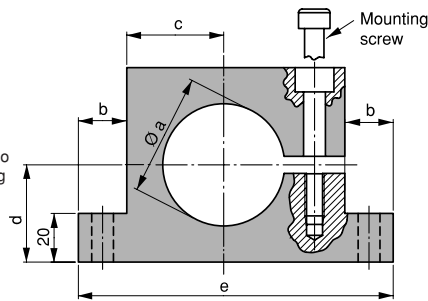
Order No.	a	b	Ø c	Ø d	e	f
FFC-7500	190	138	195.2	17.5	24	12

S-7500

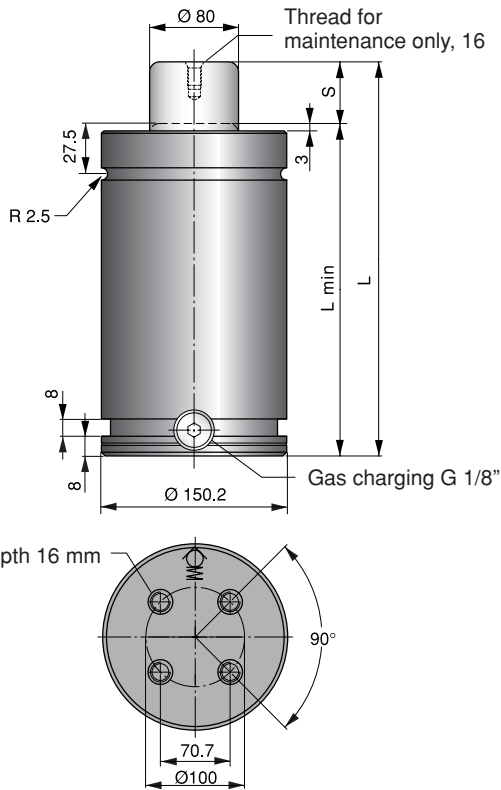


Note: S is designed to be used with a spring backed up.

The mounting screw (M12) should be tightened with torque 18 ft. lbs.



Order No.	Ø a	b	c	d	e	f	g	Ø h
S-7500	150.4	30	95	100	260	230	15	13



The basic line of gas springs is the TU line. Sizes 250 to 7500 correspond to the ISO 11901 standard for gas springs.

The thread in the piston rod top is to be used for maintenance only.

Millimeters to Inches: mm ÷ 25.4 = inches
Kilograms to Pounds: Kg ÷ 0.45 = pounds
Pounds Force to DecaNewtons: LbF x 0.4448 = decaNewtons

Order No.	S Stroke	Pounds Force (lbF) at 2175 psi		L ± 0.25	L min	Gas vol. (l)	Weight (kg)	ISO
		Initial	End Force*					
TU 7500-025	25	16860	23600	205	180	0.51	19.2	✓
TU 7500-038	38.1		24730	231.2	193.1	0.67	20.0	
TU 7500-050	50		25400	255	205	0.81	20.9	✓
TU 7500-063	63.5		25850	282	218.5	0.98	21.8	
TU 7500-075	75		26150	305	230	1.11	22.5	
TU 7500-080	80		26300	315	235	1.18	22.9	✓
TU 7500-100	100		26750	355	255	1.43	24.3	✓
TU 7500-125	125		27200	405	280	1.74	26.0	✓
TU 7500-160	160		27430	475	315	2.17	28.4	✓
TU 7500-200	200		27650	555	355	2.66	31.1	
TU 7500-250	250		27880	655	405	3.27	34.5	
TU 7500-300	300		27880	755	455	3.88	37.9	

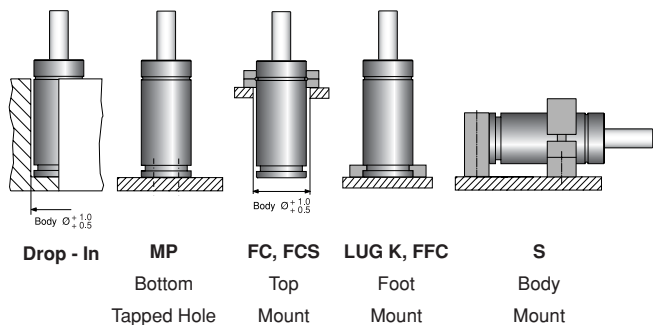
* = at full stroke

BASIC INFORMATION

Pressure medium Nitrogen
 Max. charging pressure 150 bar/2175 psi
 Min. charging pressure 25 bar/360 psi
 Operating temperature 0 - 80°C/0 - 176°F
 Force increase by temperature ±0.3%/°C
 Recommended max strokes/min ~ 15-40
 Max piston rod velocity 1.6 m/s
 Tube Black oxide
 Repair kits..... *New version (PED) 3018877
 Old version 2014068-09

*New version identified by circular rings on top of tube, guide and rod.

MOUNTING POSSIBILITIES



MP-7500

ISO

Order No.	a	b
MP-7500	190	138

FC-7500

ISO

Order No.	Ø a	Ø b	c	Ø d	e	f
FC-7500	220	195	138	17.5	27	41

FCS-7500 * = Reduced outer dimensions compared to ISO standard.

ISO *

Order No.	Ø a	b	c	Ø d	e	f
FCS-7500	195	162	138	17.5	27	41

FFC-7500

ISO

Order No.	a	b	Ø c	Ø d	e	f
FFC-7500	190	138	195.2	17.5	24	12

S-7500

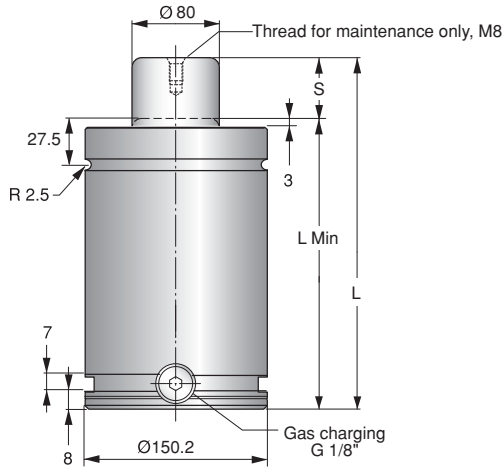
ISO

Note: S is designed to be used with a spring backed up.

The mounting screw (M12) should be tightened with torque 67 ft. lbs.

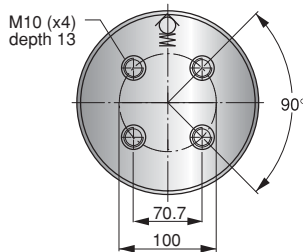
Order No.	Ø a	b	c	d	e	f	g	Ø h
S-7500	150.4	30	95	100	260	230	15	13

Note: For dimensions on mounting possibility LUG K, refer to chapter 3.



The CPF gas spring is a shorter version of the popular TU Series. It is available in a wide range of tonnage and stroke lengths.

Millimeters to Inches: mm ÷ 25.4 = inches
Kilograms to Pounds: Kg ÷ 0.45 = pounds
Pounds Force to DecaNewtons: LbF x 0.4448 = decaNewtons

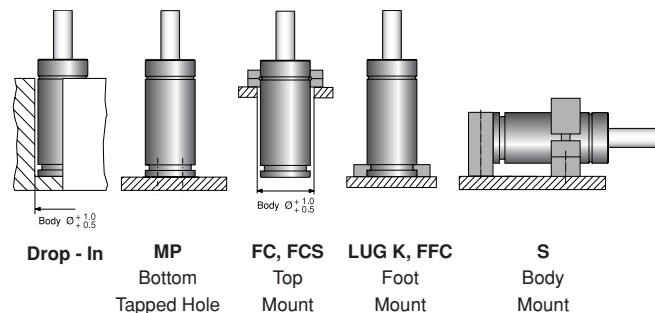


Order No.	S Stroke	Pounds Force (lbF) at 2175 psi		L ± 0.25	L min.
		Initial	End force		
CPF 7500-025	25	17000	22360	180	155
CPF 7500-038	38.1		23590	206.2	168.1
CPF 7500-050	50		24360	230	180
CPF 7500-063	63.5		24990	257	193.5
CPF 7500-075	75		25390	280	205
CPF 7500-080	80		25540	290	210
CPF 7500-100	100		26030	330	230
CPF 7500-125	125		26460	380	255
CPF 7500-150	150		26770	430	280
CPF 7500-160	160		26870	450	290
CPF 7500-175	175		27000	480	305
CPF 7500-200	200		27190	530	330
CPF 7500-250	250		27460	630	380
CPF 7500-300	300		27640	730	430

BASIC INFORMATION

Pressure medium Nitrogen
 Max. charging pressure 150 bar/2175 psi
 Min. charging pressure 89 bar/1290 psi
 Operating temperature 0 - 80°C/0 - 176°F
 Force increase by temperature ±0.3%/°C
 Recommended max. strokes/min. ~ 15-40
 Max piston rod velocity 1.6 m/s
 Repair kit CPF 7500

MOUNTING POSSIBILITIES



MP-7500

Note: Comes complete with screws to mount gas spring.

Order No.	a	b
MP-7500	190	138

FC-7500

Order No.	Ø a	Ø b	c	Ø d	e	f
FC-7500	220	195	138	17.5	27	41

FCS-7500

Order No.	Ø a	b	c	Ø d	e	f
FCS-7500	195	162	138	17.5	27	41

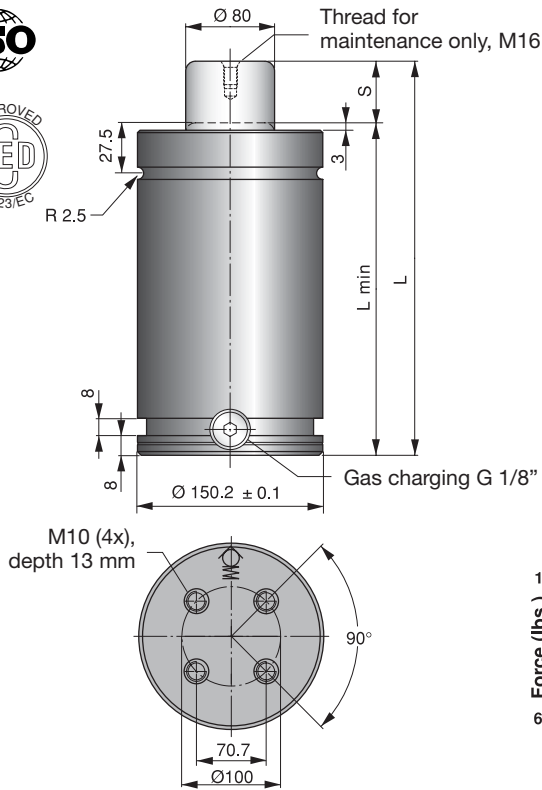
FFC-7500

Order No.	a	b	Ø c	Ø d	e	f
FFC-7500	190	138	195.2	17.5	24	12

S-7500

Note: S is designed to be used with a spring backed up.
The mounting screw (M12) should be tightened with torque 67 ft. lbs.

Order No.	Ø a	b	c	d	e	f	g	Ø h
S-7500	150.4	30	95	100	260	230	15	13

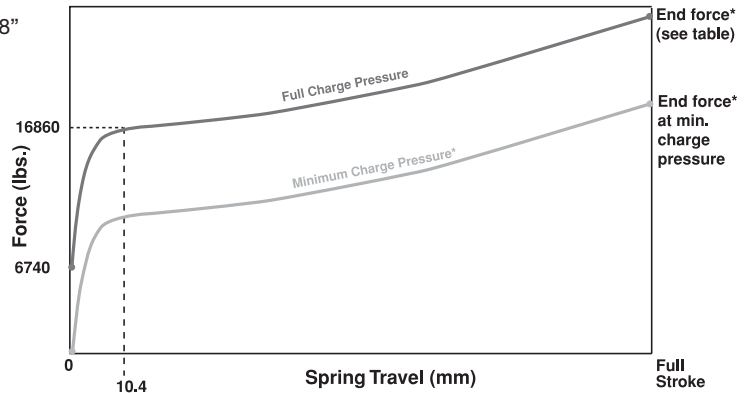


LCF Series

Low Contact Force (LCF) gas springs are designed to reduce excessive shock loads and high noise levels, factors that lead to high press maintenance costs and noise pollution.

Millimeters to Inches: mm ÷ 25.4 = inches
Kilograms to Pounds: Kg ÷ 0.45 = pounds
Pounds Force to DecaNewtons: LbF x 0.4448 = decaNewtons

Force vs Stroke for LCF 7500 Springs



Order No.	S Stroke	Pounds Force (lbF) at 2175 psi		L ± 0.25	L min	Gas vol. (l)	Weight (kg)	ISO
		Initial	End force*					
LCF 7500-025	25		23600	205	180	0.51	19.2	✓
LCF 7500-038	38.1		24730	231.2	193.1	0.67	20.0	
LCF 7500-050	50		25400	255	205	0.81	20.9	✓
LCF 7500-063	63.5		25850	282	218.5	0.98	21.8	
LCF 7500-080	80		26300	315	235	1.18	22.9	✓
LCF 7500-100	100	16860	26750	355	255	1.43	24.3	✓
LCF 7500-125	125		27200	405	280	1.74	26.0	✓
LCF 7500-160	160		27430	475	315	2.17	28.4	✓
LCF 7500-200	200		27650	555	355	2.66	31.1	
LCF 7500-250	250		27880	655	405	3.27	34.5	
LCF 7500-300	300		27880	755	455	3.88	37.9	

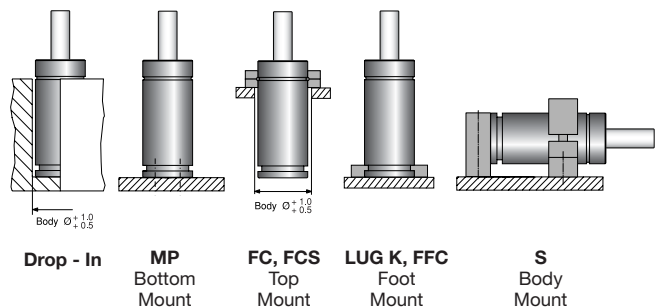
* = at full stroke

BASIC INFORMATION

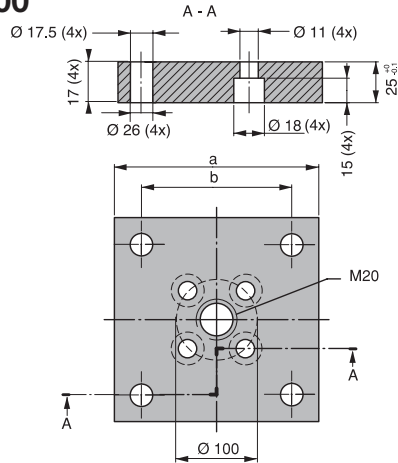
Pressure medium Nitrogen
 Max. charging pressure 150 bar/2175 psi
 Min. charging pressure 89 bar/1290 psi
 Operating temperature 0 - 80°C/0 - 176°F
 Force increase by temperature ±0.3%/°C
 Recommended max strokes/min ~ 15-40
 Max piston rod velocity 1.6 m/s
 Repair kits..... *New version (PED) 3019381
 Old version 3019134

*New version identified by circular rings on top of tube, guide and rod.

MOUNTING POSSIBILITIES

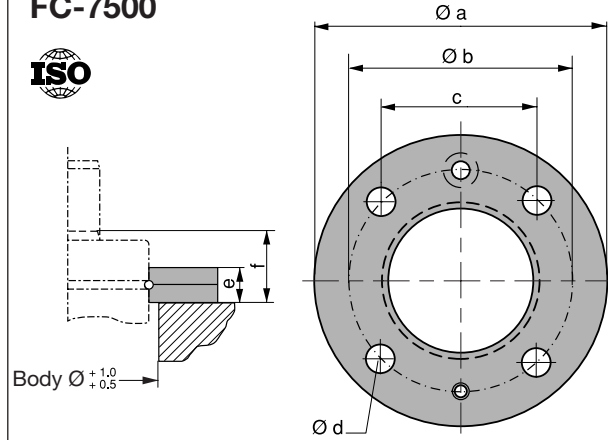


MP-7500



Order No.	a	b
MP-7500	190	138

FC-7500

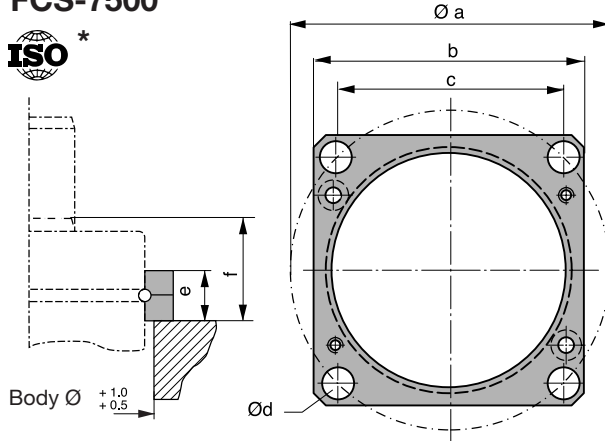


Order No.	Ø a	Ø b	c	Ø d	e	f
FC-7500	220	195	138	17.5	27	41

FCS-7500

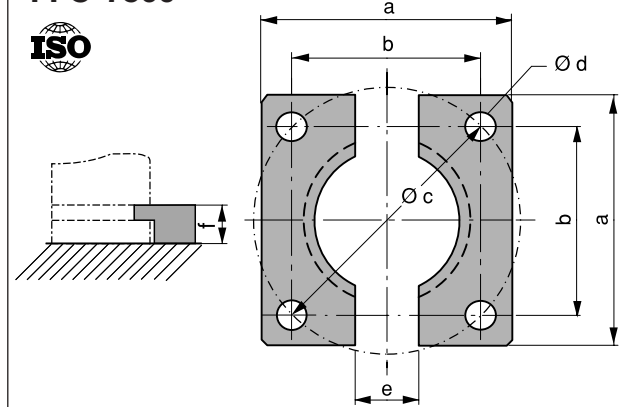


* = Reduced outer dimensions compared to ISO standard.



Order No.	Ø a	b	c	Ø d	e	f
FCS-7500	195	162	138	17.5	27	41

FFC-7500



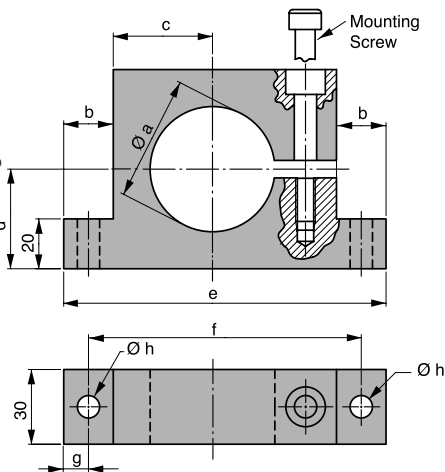
Order No.	a	b	Ø c	Ø d	e	f
FFC-7500	190	138	195.2	17.5	24	12

S-7500



Note: S is designed to be used with a spring backed up.

The mounting screw (M12) should be tightened with torque 67 ft. lbs.



Order No.	Ø a	b	c	d	e	f	g	Ø h
S-7500	150.4	30	95	100	260	230	15	13