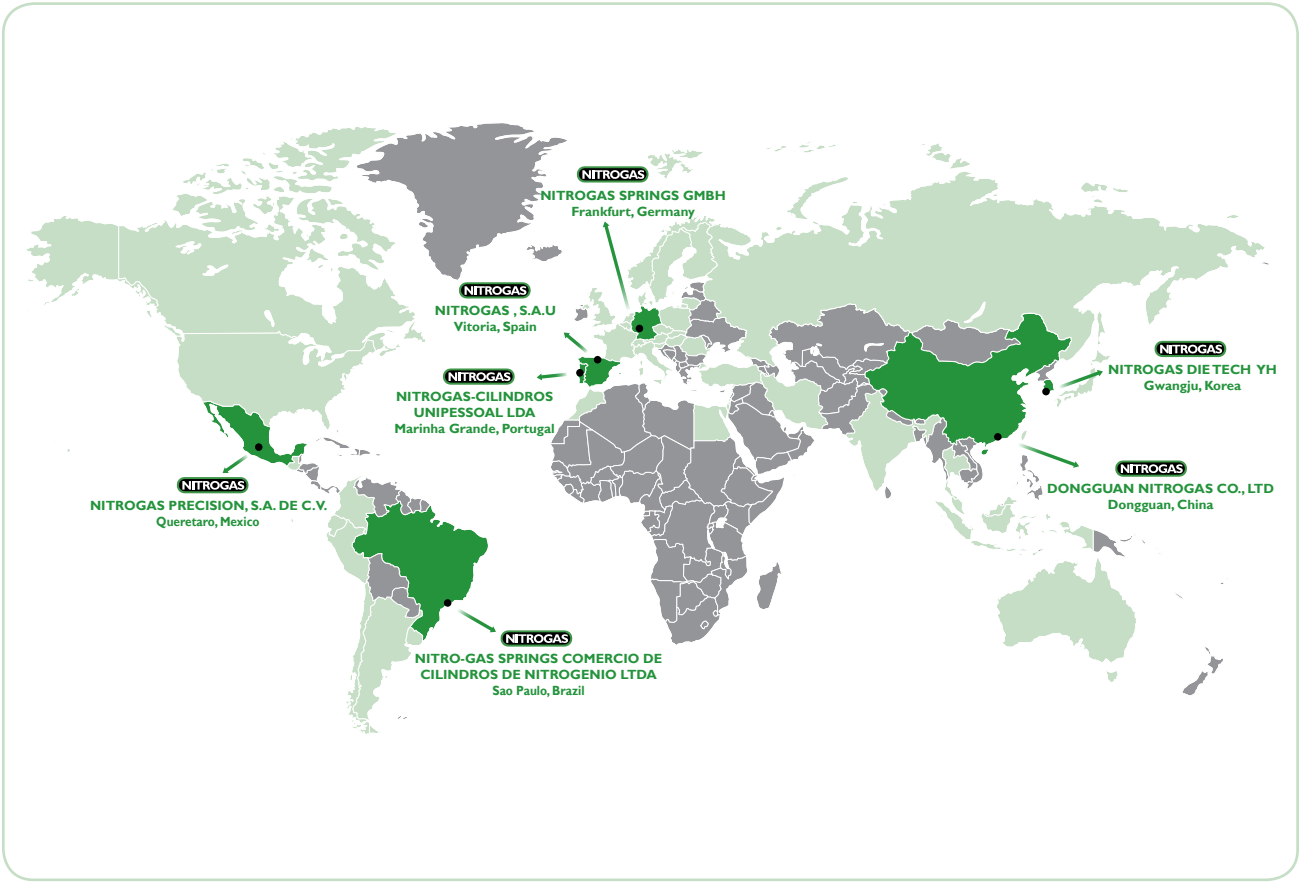
NITROGAS

Worldwide

NITROGAS is a global company that has a worldwide presence through its own network of subsidiaries and extensive distributor network.

SUBSIDIARIES



DISTRIBUTORS

WESTERN EUROPE

Austria	Italy	Sweden
Denmark	Netherlands	Switzerland
Finland	Norway	United Kingdom
France	Portugal	
Germany	Spain	

EASTERN EUROPE

Slovakia	Hungary
Slovenia	Czech Republic
Lithuania	Poland
Romania	Turkey
Russia	

AMERICA

Argentina	Guatemala
Brazil	Mexico
Canada	Peru
Chile	Uruguay
Colombia	USA
Ecuador	

ASIA-OCEANIA

Australia	Japan
China	Korea
India	Malaysia
Indonesia	Russia
Iran	Taiwan
Israel	Thailand

AFRICA

Morocco
South Africa

Our customers can learn more about the nearest contact on our website:

www.nitrogas.com/es/Worldwide.aspx

Why Nitrogas?

BEST GAS SPRING IN THE MARKET

NITROGAS's gas springs offer the world's most advanced technology, guaranteeing longer gas spring life than other products on the market.

NITROGAS offers customers products that meet any test of approval, confirming the longest life of our gas springs.

25 YEARS OF EXPERIENCE SPEAKS FOR ITSELF

NITROGAS was founded in Vitoria (Spain) in 1988 and has become one of the most important manufacturer of gas cylinders.

For 25 years we have developed this technology.

Today, NITROGAS has his wholly owned subsidiaries in Germany, Portugal, China, Korea, Mexico and Brazil besides its dealer network.

ENGINEERS TO THE SERVICE OF TECHNICAL DEPARTMENTS

NITROGAS ensures maximum technical support to its customers, with prompt response to any application assistance or questions related to their products.

TECHNOLOGICAL PARTNERS – SPECIFIC SOLUTIONS

NITROGAS created the NITROGAS TECHNOLOGY CENTER (NTC), bringing together a group of engineers and technicians to concentrate on the R & D services the company gives to customers with specific projects that may require special solutions or need higher performance than other standard products on the market.

WORLD PRESENCE – PLANT SUPPORT (STOCK, REPAIRS...)

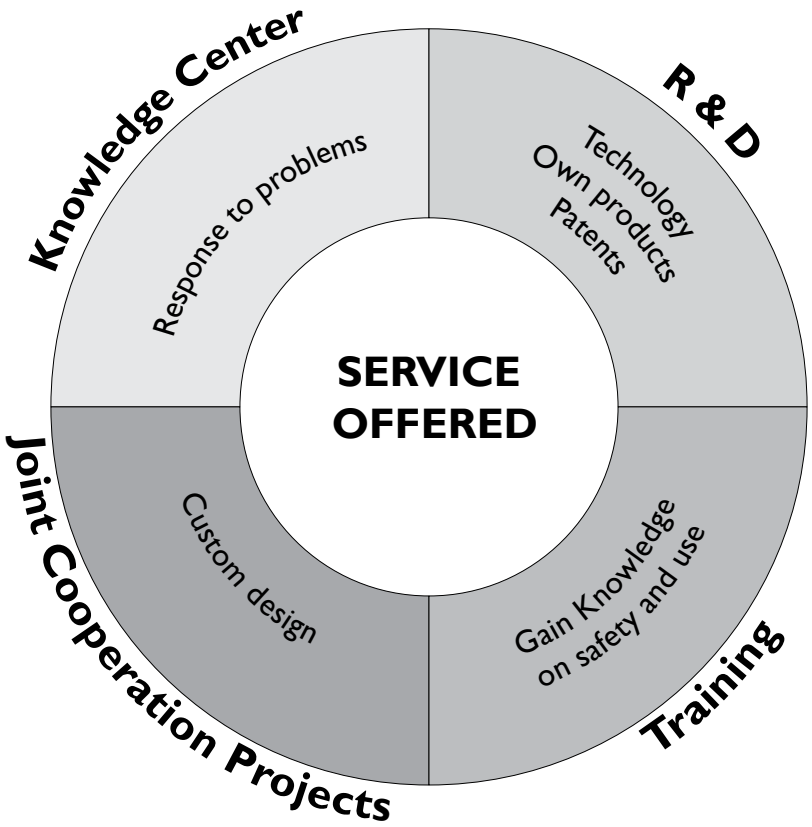
NITROGAS analyzes and diagnoses with its customers any product and service needs required in each customers' facility, formulating a response that meets customer expectations.

NITROGAS structure allows reaching any market in the world.

Nitrogas Technology Center

NITROGAS is a company strongly committed to research and innovation. It has the largest Research and Knowledge Center in the world concerning gas springs: NITROGAS TECHNOLOGY CENTER.

Here a team of experienced engineers investigate and test the latest improvements and technologies related to the development of gas springs. As a result of hard work, several worldwide patents were obtained, and allow NITROGAS to remain leader in the development of new products, offering high tech solutions. NITROGAS also provides solutions to special request, or response to any question, problem or need of our customer.



INDEX

Quality and Safety

Safety is a top priority for NITROGAS and we strongly believe that gas springs for metal stamping should meet some basic safety requirements.

Having always in mind our mission to satisfy our customers, NITROGAS was awarded in 1998 with the certification in accordance with the requirement of the management system standards of ISO 9001:2015 Norm.

PED
NITROGAS is also certified by the Pressure Equipment Directive 2014/68/EU Directive that regulates the proper manufacturing of pressure equipment.

Automotive Standards

Supplementary to the standards mentioned above, NITROGAS products also meet other automotive standards. If any standard-icon is showed, the gas springs's body and rod are designed to keep the dimensions that are established in this standard.

ISO : ISO 11901
ISO 11901-1 - Tools for pressing. Gas Springs. General specifications.
ISO 11901-2 - Tools for pressing. Gas Springs. Specification of accessories.
ISO 11901-3 - Tools for pressing. Gas Springs. Gas spring with increased spring force and compact built height.
ISO 11901-4 - Tools for pressing. Gas Springs. Gas springs with increased spring force and same built height.

VDI : Verein Deutscher Ingenieure
VDI 3003 - Nitrogen gas springs in large stamping dies and mounting versions.
VDI 3004 - Forcing pins with helical compression springs or nitrogen gas springs.

CNOMO EM24.54.700

CNOMO : Renault Group
CNOMO EM24.54.700 - Gas springs, pneumatic springs for press tooling.

PSA E24.54.815.G

PSA : Peugeot - Citroën Group
PSA E24.54.815.G - Gas springs and accessories.

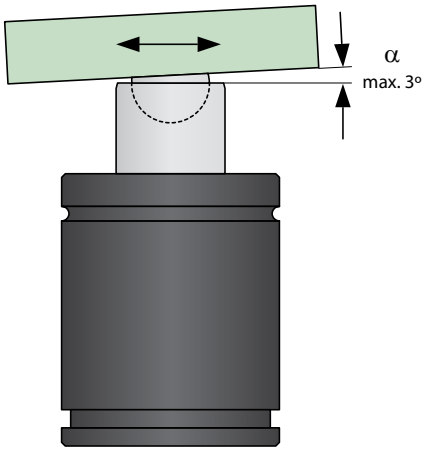
SMS DNH 3203N

TOYOTA
SMS DNH 3203 N - Toyota standard.

NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

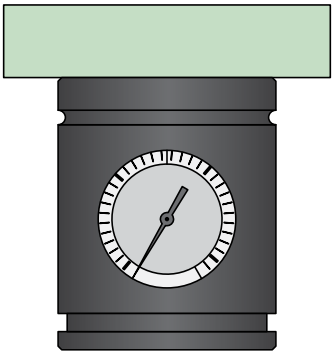
Total Security

NITROGAS want to offer the safest product with the longest life. Below there are some of our improvements related to the design, use and management of the gas spring that would make the maintenance work easier.



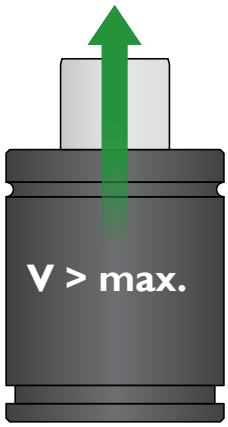
ESK System
PATENTED

Design for compensate unbalanced forces and increase gas springs life. This system allows up to two degrees of side load and unlike other balanced systems, the ESK system maintains the rod in vertical position.



Blow Out Protection System

Safety system that allows a controlled nitrogen gas discharge in case of overcome working limits.



Excesive Return Speed Lifeguard

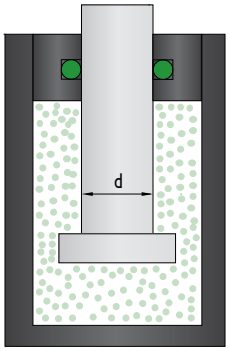
The new and safer design of the gas springs avoids the rupture in case of an excessively rapid return stroke.

Technical Features

NITROGAS gas springs can be divided into Piston Rod Sealed gas springs or Bore Sealed gas springs depending on the type of seal and where is it located. The force of each gas spring depends on the nitrogen charging pressure and the working surface.

$$F\ (daN) = P\ (bar) \times S\ (mm^2) / 100 \quad \text{where} \quad S = \pi \times d^2 / 4$$

Piston Rod Sealed gas springs



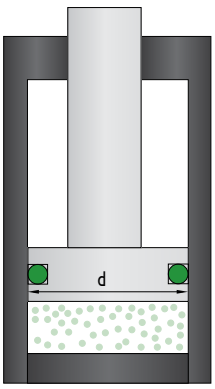
Piston rod gas springs suit a wide range of needs due to the high variety on their design.

To calculate the force of a piston rod sealed gas spring the diameter to take into account is the diameter of the rod.

Practical example using G-1500 gas spring:

d= 36 mm
P= 150 bar
$S = \pi \times 36^2 / 4 = 1018\ mm^2$
F= 150 x 1018 / 100= 1527 daN

Bore Sealed gas springs



Bore sealed gas springs are ideal for small movements and very strong forces with a maximum contact pressure.

To calculate the force of a bore sealed gas spring the diameter to take into account is the diameter of the piston.

Practical example using TS-1800 gas spring:

d= 40 mm
P= 145 bar
$S = \pi \times 40^2 / 4 = 1257\ mm^2$
F= 145 x 1257 / 100= 1822 daN

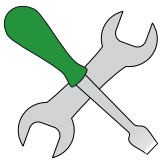
NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

Safety Standards

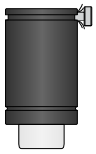
The gas springs contain high pressure gas. The rules detailed below are mandatory.

Any unauthorized operation performed, or improper use can cause serious material or personal injury. If there is any suspicion of damage to the gas spring, immediately remove it.

NITROGAS is not responsible for personal injury and damage that may happen because of violation of such security rules.

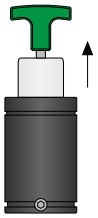


1 Maintenance must be performed exclusively by personal that has been trained and certified by NITROGAS. Any improper handling could cause serious safety hazards or limit the lifetime of the gas springs.
Before any repair, discharge the pressure and ensure that the rod is completely within the body.



2 During discharge of the gas spring, orientate the gas flow in the opposite direction to the operator and position the discharge point as high as possible.
We recommend the use of eyewear.

3 Gas springs must only be charged with commercial nitrogen.
The maximum charge pressure (at 20 °C) is marked on each gas spring. Do not exceed the maximum charge pressure without the prior written consent of NITROGAS.

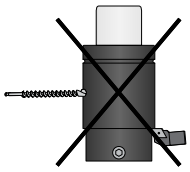


4 Before loading any gas spring, ensure that the piston rod is in its most extended position and the safety ring (in case any) is perfectly located in the housing.

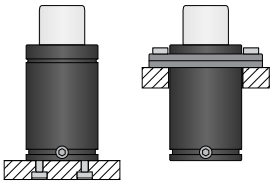
5 To test the force of a gas spring, there are specific tools for measurement to be used. Never hit on the rod to see if the gas spring is under pressure.

NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

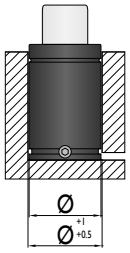
6 We recommend a regular visual inspection of the gas springs.
If a gas spring has damage to its structure, discharge the pressure prior to review.



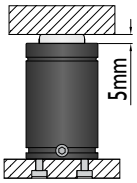
7 Any secondary operation (including grinding, machining, or welding) on any part of the gas spring is completely forbidden.
The risks increase if operations are performed with a loaded gas spring.



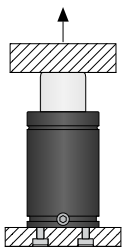
8 Gas springs must only be installed in the tool in the ways described in the specification sheet for each model.
The gas springs shall be securely held in place by the thread of the bottom of the body or by fastening accessories NITROGAS offers in each model.



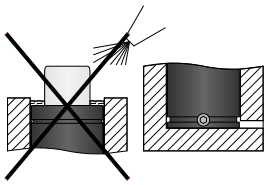
9 In the case of accommodating the gas spring in a pocket drilled in the tool, the body must be adjusted to the hole to prevent from pitching.
If the gas spring is housed in a pocket that can be flooded, please allow for drainage to facilitate the outlet of fluids.



10 Avoid using the last 5 mm of the gas spring stroke to prevent possible over-stroke caused by changes or errors in the tool.
An excessive stroke can have serious and obvious security risks that can cause permanent damage to the gas spring.



11 Prevent the sudden or uncontrolled rod output. Do not exceed the maximum speed specified in the file for each model.

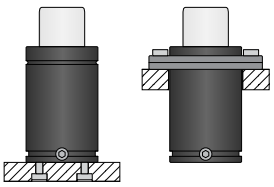


12 Protect the gas springs from direct contact with liquids or solids contaminations. If the gas cylinder is housed in a pocket that can be flooded, include drains to facilitate any outlet of fluids. In the case of fluids, the body should protrude 5 mm from surface to prevent fluids accumulation.

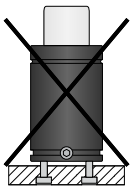
Specifications for Installation and Use

For proper operation, gas springs must be installed following the specifications for installation and use described below.

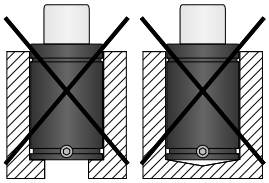
NITROGAS is not liable for damages or premature wear caused to gas springs, due to failure to comply with these specifications for installation and use.



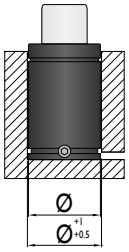
1 Install gas springs in the tool only in the ways described in the specification sheet for each model.
Gas springs must be securely fastened by the threads of the bottom of the body or by fastening the accessories NITROGAS offers for each model.



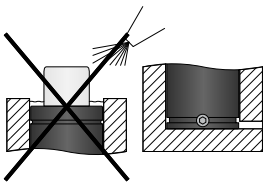
2 Check that the length of the fastening screw used is adequate so that the settlement of the gas spring is always on its base.
Tighten the clamping screws holding the base of the cylinder to the recommended torque:
M6 = 10Nm, M8 = 24Nm, M10 = 45Nm, M12 = 80Nm.



3 The base of the gas spring must rest on a plane support. Inadequate housing can damage the gas spring or reduce its life.

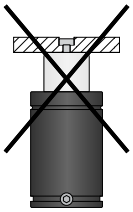


4 In case of accommodating the gas spring in a drilled pocket in the tool, the body must be adjusted to the hole to prevent from pitching.

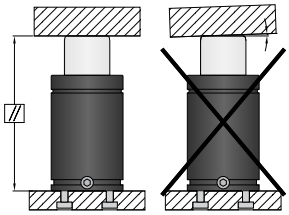


5 Protect gas springs from liquid or solid contamination.
If the gas spring is housed in a pocket that can be flooded, include drains to facilitate any fluid outlet. In the case of fluids, the body should protrude 5 mm from surface to prevent fluids accumulation.

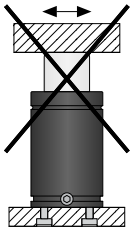
NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com



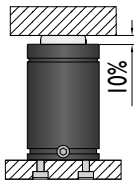
6 Do not use the threaded holes in the rod end to fix the gas spring to the tool.
This hole is only intended for maintenance. Do not use for transport operations of gas springs.



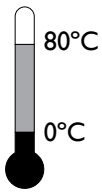
7 Ensure parallelism between the surface of the gas spring and the rod pushing surface to prevent the occurrence of lateral forces.
The hardness of the contact surface should be sufficient.
Ensure full contact on the bearing surface of the rod.



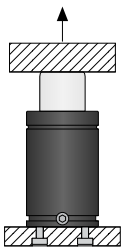
8 Avoid any lateral displacement of the gas spring while running. Give special attention to any vibrations during movement of the rod.



9 It is recommended to provide a reserve of travel at least 10% of the nominal stroke.
The recommended reserve of travel for each gas spring is indicated in the specification sheet for each model.



10 The operating temperature of the gas springs is between 0 °C and 80 °C.
Upon request NITROGAS can supply gas springs supporting temperatures between - 20 °C and 180 °C.

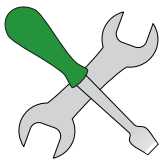


11 Prevent the sudden or uncontrolled rod output. Do not exceed the maximum speed specified in the file for each model.

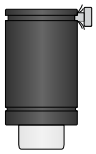
Maintenance Recommendations

Maintenance must be carried out exclusively by personal that has been trained and certified by NITROGAS. Any improper handling could cause serious safety hazards or limit the lifetime of the gas springs.

1 Before any repair, discharge entirely the pressure and ensure that the rod is completely within the body.



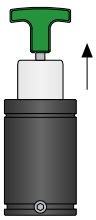
2 We recommend a regular visual inspection of the gas springs.
If a cylinder has damage to its structure, fully discharge the pressure prior to review.



3 During unloading of the gas spring, direct the flow of gas away from the operator and position the discharge point as high as possible.
We recommend using safety glasses.

4 Never throw away the gas spring without having properly discharged the pressure.

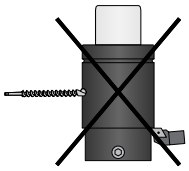
5 Gas springs must be loaded with commercial nitrogen.
The maximum loading pressure (at 20 °C) is marked on each gas spring.
Do not exceed the maximum charge pressure without the prior written consent of NITROGAS.



6 Before loading any gas spring, make sure that the rod is in its most extended position and the safety ring (in case any) is perfectly located in the housing.

NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

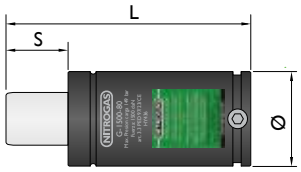
7 To test the strength of a specific cylinder there are specific tools for measuring the force. Never hit the rod to see if the gas spring is under pressure.



8 To ensure correct operation of the gas spring, the surfaces of the rod and body of the gas spring must remain free of blows, scratches, or any type of deformation.
The secondary operations of any part of the gas spring (including grinding, machining, welding, etc.) are completely forbidden.

9 Protect gas springs during transportation. Protect gas springs from hitting each other; protect them from oxidation in the case of maritime transport.

Gas Spring Selection Guide



Gas spring family

Force daN	MICRO	LOW PROFILE - HIGH FORCE	KH	HD	STANDARD	COMPACT	Model	max F0	Ø mm	S mm	L mm		Linkable
≤100	Z-50 Z-70 R-100						**Z-50**	13 - 50	12	7 - 125	2xS + 42	No	No
							Z-70	18 - 70	15	7 - 125	2xS + 42	No	No
							R-100	30 - 90	19	7 - 125	2xS + 42	No	No
150 - 200	R-200	KP-150			CN-150		**KP-170**	170	19	7 - 125	2xS + 30	No	No
							R-200	50 - 200	25	10 - 125	2xS + 42	No	No
							CN-150	150	32	10 - 125	2xS + 50	No	No
250					CN-250		**CN-250**	265	38	10 - 125	2xS + 50	No	M6
320 - 450		KP-320 KP-350				TS-420	**KP-320**	320	25	7 - 125	2xS + 30	No	No
							KP-350	360	32	10 - 125	2xS + 30	No	M6
							TS-420	420	25	6 - 50	56 - 195	No	No
500		KP-500	KH-500		CN-500		**KP-500**	470	38	10 - 125	2xS + 30	No	M6
							KH-500	470	45	12.7 - 125	2xS + 50	No	G1/8"
							CN-500	470	45	12.7 - 160	2xS + 85	No	G1/8"
750		KP-750	KH-750	HD-750	G-750	TS-750	**KP-750**	740	45	10 - 125	2xS + 32	Yes	M6
							KH-750	740	50	12.7 - 125	2xS + 50	Yes	G1/8"
							HD-750	740	45	13 - 200	2xS + 85	Yes	G1/8"
							G-750	740	50	12.7 - 300	2xS + 95	Yes	G1/8"
							TS-750	740	32	6 - 50	63 - 195	No	No
1000		KP-1000		HD-1000		TS-1000	**KP-1000**	920	50	13 - 125	2xS + 38	Yes	M6
							HD-1000	920	50	25 - 300	2xS + 95	Yes	G1/8"
							TS-1000	920	38	6 - 50	61 - 230	No	No
1500		KP-1500	KH-1500	HD-1500	G-1500	TS-1800	**KP-1500**	1500	63	13 - 125	2xS + 44	Yes	M6
							KH-1500	1500	75	25 - 125	2xS + 60	Yes	G1/8"
							HD-1500	1500	63	25 - 300	2xS + 95	Yes	G1/8"
							G-1500	1500	75	25 - 300	2xS + 110	Yes	G1/8"
							TS-1800	1800	50	6 - 65	66 - 271	No	No

NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

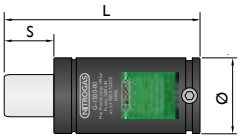
NITROGAS

Gas spring family

Force	LOW PROFILE - HIGH FORCE	KH	HD	STANDARD	COMPACT	Model	max F0	Ø mm	S mm	L mm	Linkable	
2500	 KP-2400		 HD-2400			**KP-2400**	2400	75	16 - 125	2xS + 45	Yes	M6
						HD-2400	2400	75	25 - 300	2xS + 110	Yes	G1/8"
3000				 G-3000	 TS-3000	**G-3000**	3000	95	25 - 300	2xS + 120	Yes	G1/8"
						TS-3000	3000	63	10 - 65	85 - 256	No	No
4000	 KP-4200		 HD-4200			**KP-4200**	4200	95	16 - 125	2xS + 58	Yes	G1/8"
						HD-4200	4200	95	25 - 300	2xS + 120	Yes	G1/8"
5000				 G-5000	 TS-4700	**G-5000**	5000	120	25 - 300	2xS + 140	Yes	G1/8"
						TS-4700	4700	75	10 - 65	80 - 273	No	No
6500	 KP-6600		 HD-6600			**KP-6600**	6600	120	16 - 125	2xS + 68	Yes	G1/8"
						HD-6600	6600	120	25 - 300	2xS + 140	Yes	G1/8"
7500				 CN-7500	 TS-7500	**CN-7500**	7500	150	25 - 300	2xS + 155	Yes	G1/8"
						TS-7500	7500	95	10 - 65	90 - 279	No	No
10000	 KP-9500		 HD-9500	 CN-10000		**KP-9500**	9500	150	19 - 125	2xS + 78	Yes	G1/8"
						HD-9500	9500	150	25 - 200	2xS + 155	Yes	G1/8"
						CN-10000	10600	195	25 - 300	2xS + 160	Yes	G1/8"
12000					 TS-11800	**TS-11800**	11800	120	10 - 65	100 - 320	No	No
20000	 KP-20000		 HD-20000		 TS-18300	**KP-20000**	20000	195	19 - 125	2xS + 110	No	G1/8"
						HD-20000	20000	195	25 - 300	2xS + 160	No	G1/8"
						TS-18300	18300	150	10 - 65	110 - 323	No	No

NITROGAS

Gas Spring Overview



Micro

Gas springs with reduced dimensions and colour coded for easy identification.

R	F0 daN	Ø mm	L mm	STROKE 6	7	10	12	13	15	16	19	20	25	30	32	38	40	50	60	63	75	80	100	125	160	200	250	300
R-100	30-90	19	2xS+42		*	*			*				*			*		*		*		*	*	*				
R-200	50-200	25	2xS+42			*		*	*	*			*			*		*		*		*	*	*				
Z	**F0 daN**	**Ø mm**	**L mm**	**STROKE** 6	7	10	12	13	15	16	19	20	25	30	32	38	40	50	60	63	75	80	100	125	160	200	250	300
Z-50	13-50	12	2xS+42		*	*		*	*		*		*			*		*		*	*	*	*	*				
Z-70	18-70	15	2xS+42		*	*		*	*		*		*			*		*		*	*	*	*	*				

ISO

Designed to keep the dimensions established in the ISO 11901-1 standard.

CN	F0 daN	Ø mm	L mm	STROKE 6	7	10	12	13	15	16	19	20	25	30	32	38	40	50	60	63	75	80	100	125	160	200	250	300
CN-150	150	32	2xS+50			*		*		*			*			*		*		*		*	*	*				
CN-250	265	38	2xS+50			*		*		*	*		*			*		*		*		*	*	*				
CN-500	470	45	2xS+85					*					*			*		*		*		*	*	*	*			
CN-7500	7500	150	2xS+155										*			*		*		*		*	*	*	*	*	*	*
CN-10000	10600	195	2xS+160										*			*		*		*		*	*	*	*	*	*	*
G	**F0 daN**	**Ø mm**	**L mm**	**STROKE** 6	7	10	12	13	15	16	19	20	25	30	32	38	40	50	60	63	75	80	100	125	160	200	250	300
G-750	740	50	2xS+95					*					*			*		*		*		*	*	*	*	*	*	*
G-1500	1500	75	2xS+110										*			*		*		*		*	*	*	*	*	*	*
G-3000	3000	95	2xS+120										*			*		*		*		*	*	*	*	*	*	*
G-5000	5000	120	2xS+140										*			*		*		*		*	*	*	*	*	*	*

Low profile - High Force

Maximum force with the minimum height.

K	F0 daN	Ø mm	L mm	STROKE 6	7	10	12	13	15	16	19	20	25	30	32	38	40	50	60	63	75	80	100	125	160	200	250	300
K-200	50-200	25	2xS+32		*		*			*			*			*		*		*		*	*	*				
K-300	100-300	32	2xS+39		*		*			*			*			*		*		*		*	*	*				
K-570	570	38	2xS+37		*		*			*			*			*		*		*		*	*	*				
K-750	740	45	2xS+50				*				*		*			*		*		*		*	*	*				
K-1000	990	50	2xS+50				*				*		*			*		*		*		*	*	*				
K-1500	1500	63	2xS+60				*						*			*		*		*		*	*	*				
K-2500	2500	75	2xS+60				*						*			*		*		*		*	*	*				
K-4000	4000	95	2xS+70										*			*		*		*		*	*	*				

NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

KC	F0 daN	Ø mm	L mm	STROKE																										
				6	7	10	12	13	15	16	19	20	25	30	32	38	40	50	60	63	75	80	100	125	160	200	250	300
KC-300	300	32	2xS+37		*		*			*			*			*		*		*		*	*	*				
KC-550	550	38	2xS+32				*						*			*		*		*		*	*	*				
KC-1500	1500	63	2xS+52				*						*			*		*		*		*	*	*				
KC-3000	3000	75	2xS+54				*						*			*		*		*		*	*	*				
KC-5000	5000	105	2xS+60				*						*			*		*		*		*	*	*				

KH	F0 daN	Ø mm	L mm	STROKE																										
				6	7	10	12	13	15	16	19	20	25	30	32	38	40	50	60	63	75	80	100	125	160	200	250	300
KH-500	470	45	2xS+50					*			*		*			*		*		*		*	*	*				
KH-750	740	50	2xS+50					*			*		*			*		*		*		*	*	*				
KH-1500	1500	75	2xS+60										*			*		*		*		*	*	*				

KP	F0 daN	Ø mm	L mm	STROKE																										
				6	7	10	12	13	15	16	19	20	25	30	32	38	40	50	60	63	75	80	100	125	160	200	250	300
KP-170	170	19	2xS+30		*	*			*		*		*			*		*		*	*	*	*	*				
KP-320	320	25	2xS+30		*	*			*		*		*			*		*		*	*	*	*	*				
KP-350	360	32	2xS+30			*		*		*	*		*		*	*		*		*	*	*	*	*				
KP-500	470	38	2xS+30			*		*		*	*		*		*	*		*		*	*	*	*	*				
KP-750	740	45	2xS+32			*		*		*	*		*		*	*		*		*	*	*	*	*				
KP-1000	920	50	2xS+38					*		*	*		*		*	*		*		*	*	*	*	*				
KP-1500	1500	63	2xS+44					*		*	*		*		*	*		*		*	*	*	*	*				
KP-2400	2400	75	2xS+45							*	*		*		*	*		*		*	*	*	*	*				
KP-4200	4200	95	2xS+58							*	*		*		*	*		*		*	*	*	*	*				
KP-6600	6600	120	2xS+68							*	*		*		*	*		*		*	*	*	*	*				
KP-9500	9500	150	2xS+78								*		*		*	*		*		*	*	*	*	*				
KP-20000	20000	195	2xS+110								*		*		*	*		*		*	*	*	*	*				

NR	F0 daN	Ø mm	L mm	STROKE																										
				6	7	10	12	13	15	16	19	20	25	30	32	38	40	50	60	63	75	80	100	125	160	200	250	300
NR-350	360	32	2xS+40			*		*		*	*		*		*	*		*		*	*	*	*	*				
NR-500	470	38	2xS+40			*		*		*	*		*		*	*		*		*	*	*	*	*				
NR-750	740	45	2xS+47			*		*		*	*		*		*	*		*		*	*	*	*	*				
NR-1000	920	50	2xS+52					*		*	*		*		*	*		*		*	*	*	*	*				
NR-1500	1500	63	2xS+52					*		*	*		*		*	*		*		*	*	*	*	*				
NR-2400	2400	75	2xS+59							*	*		*		*	*		*		*	*	*	*	*				
NR-4200	4200	95	2xS+62							*	*		*		*	*		*		*	*	*	*	*				
NR-6600	6600	120	2xS+72							*	*		*		*	*		*		*	*	*	*	*				

NT	F0 daN	Ø mm	L mm	STROKE																										
				6	7	10	12	13	15	16	19	20	25	30	32	38	40	50	60	63	75	80	100	125	160	200	250	300
NT-1000	920	50	2xS+52					*		*	*		*		*	*		*		*	*	*	*	*				
NT-2400	2400	75	2xS+59							*	*		*		*	*		*		*	*	*	*	*				
NT-4200	4200	95	2xS+62							*	*		*		*	*		*		*	*	*	*	*				
NT-6600	6600	120	2xS+72							*	*		*		*	*		*		*	*	*	*	*				
NT-9500	9500	150	2xS+78										*		*	*		*		*	*	*	*	*				

Standard Dimensions

Designed based on ISO 11901-1 standard to provide more force with a similar height.

G	F0 daN	Ø mm	L mm	STROKE 6	7	10	12	13	15	16	19	20	25	30	32	38	40	50	60	63	75	80	100	125	160	200	250	300
G-100	30-90	22	2xS+60				*						*			*		*		*		*	*	*				
G-200	50-200	25	2xS+54				*						*			*		*		*		*	*	*				
G-300	100-300	32	2xS+60				*						*			*		*		*		*	*	*				
G-500	500	45	2xS+60				*						*			*		*		*		*	*	*				
G-10000	9500	150	2xS+136										*			*		*		*		*	*	*	*			

HD	F0 daN	Ø mm	L mm	STROKE 6	7	10	12	13	15	16	19	20	25	30	32	38	40	50	60	63	75	80	100	125	160	200	250	300
HD-750	740	45	2xS+85					*					*			*		*		*		*	*	*	*			
HD-1000	920	50	2xS+95										*			*		*		*		*	*	*	*	*	*	*
HD-1500	1500	63	2xS+95										*			*		*		*		*	*	*	*	*	*	*
HD-2400	2400	75	2xS+110										*			*		*		*		*	*	*	*	*	*	*
HD-4200	4200	95	2xS+120										*			*		*		*		*	*	*	*	*	*	*
HD-6600	6600	120	2xS+140										*			*		*		*		*	*	*	*	*	*	*
HD-9500	9500	150	2xS+155										*			*		*		*		*	*	*	*	*	*	*
HD-20000	20000	195	2xS+160										*			*		*		*		*	*	*	*	*	*	*

HG	F0 daN	Ø mm	L mm	STROKE 6	7	10	12	13	15	16	19	20	25	30	32	38	40	50	60	63	75	80	100	125	160	200	250	300
HG-750	740	50	2xS+70					*					*			*		*		*		*	*	*	*			
HG-1500	1500	75	2xS+85										*			*		*		*		*	*	*	*			
HG-3000	3000	95	2xS+95										*			*		*		*		*	*	*	*			
HG-5000	5000	120	2xS+102.5										*			*		*		*		*	*	*	*			
HG-7500	7500	150	2xS+105										*			*		*		*		*	*	*	*			

M	F0 daN	Ø mm	L mm	STROKE 6	7	10	12	13	15	16	19	20	25	30	32	38	40	50	60	63	75	80	100	125	160	200	250	300
M-350	350	32	2xS+50						*				*			*		*		*		*	*	*				
M-500	500	38	2xS+55				*		*				*			*		*		*		*	*	*				
M-1000	920	50	2xS+85										*			*		*		*		*	*	*	*			
M-1500	1500	63	2xS+85										*			*		*		*		*	*	*	*			
M-2500	2500	75	2xS+95										*			*		*		*		*	*	*	*			
M-4000	4000	95	2xS+110										*			*		*		*		*	*	*	*			
M-6500	6400	120	2xS+115										*			*		*		*		*	*	*	*			

NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

Compact

Bore sealed gas springs provide extreme forces with minimal body diameters and short strokes.

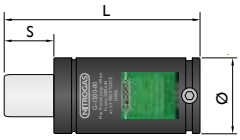
T	F0 daN	Ø mm	L mm	STROKE																								
				6	7	10	12	13	15	16	19	20	25	30	32	38	40	50	60	65	75	80	100	125	160	200	250	300
T-420	420	25	56-195	*		*				*			*		*		*	*										
T-750	740	32	63-195	*		*				*			*		*		*	*										
T-1000	920	38	61-230	*		*				*			*		*		*	*										
T-1800	1800	50	66-220	*		*				*			*		*		*	*										
T-3000	3000	63	85-205			*				*			*		*		*	*										
T-4700	4700	75	80-240			*				*			*		*		*	*										
T-7500	7500	95	90-255			*				*			*		*		*	*										
T-11800	11800	120	100-260			*				*			*		*		*	*										
T-18300	18300	150	110-270			*				*			*		*		*	*										

TS	F0 daN	Ø mm	L mm	STROKE																								
				6	7	10	12	13	15	16	19	20	25	30	32	38	40	50	60	65	75	80	100	125	160	200	250	300
TS-420	420	25	56-195	*		*				*			*		*		*	*										
TS-750	740	32	63-195	*		*				*			*		*		*	*										
TS-1000	920	38	61-230	*		*				*			*		*		*	*										
TS-1800	1800	50	66-271	*		*				*			*		*		*	*		*								
TS-3000	3000	63	85-256			*				*			*		*		*	*		*								
TS-4700	4700	75	80-273			*				*			*		*		*	*		*								
TS-7500	7500	95	90-279			*				*			*		*		*	*		*								
TS-11800	11800	120	100-320			*				*			*		*		*	*		*								
TS-18300	18300	150	110-323			*				*			*		*		*	*		*								

Connectable options available with TC and TCS gas springs.

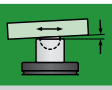
NITROGAS

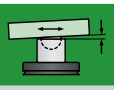
Diameter index



Model	max F_0	Ø mm	S mm	L mm		Linkable	Page
Z-50	13 - 50	12	7 - 125	2xS + 42	No	No	24
Z-70	18 - 70	15	7 - 125	2xS + 42	No	No	26
R-100	30 - 90	19	7 - 125	2xS + 42	No	No	28
KP-170	170	19	7 - 125	2xS + 30	No	No	34
G-100	30-90	22	12 - 125	2xS + 60	No	No	30
K-200	50 - 200	25	7 - 125	2xS + 32	No	No	36
R-200	50 - 200	25	10 - 125	2xS + 42	No	No	38
G-200	50 - 200	25	12 - 125	2xS + 54	No	No	42
KP-320	320	25	7 - 125	2xS + 30	No	No	56
T-420	420	25	6 - 50	56 - 195	No	No	64
TS-420	420	25	6 - 50	56 - 195	No	No	66
CN-150	150	32	10 - 125	2xS + 50	No	No	40
KC-300	300	32	7 - 125	2xS + 37	No	No	46
K-300	100 - 300	32	7 - 125	2xS + 39	No	No	48
G-300	100 - 300	32	12 - 125	2xS + 60	No	No	52
M-350	350	32	15 - 125	2xS + 50	No	No	62
KP-350	360	32	10 - 125	2xS + 30	No	M6	58
NR-350	360	32	10 - 125	2xS + 40	No	M6	60
T-750	740	32	6 - 50	63 - 195	No	No	102
TS-750	740	32	6 - 50	63 - 195	No	No	104
CN-250	265	38	10 - 125	2xS + 50	No	M6	50
KP-500	470	38	10 - 125	2xS + 30	No	M6	70
NR-500	470	38	10 - 125	2xS + 40	No	G1/8"	76
M-500	500	38	12 - 125	2xS + 55	No	No	80
KC-550	550	38	12 - 125	2xS + 32	No	No	72
K-570	570	38	7 - 125	2xS + 37	No	No	74
T-1000	920	38	6 - 50	61 - 230	No	No	120
TS-1000	920	38	6 - 50	61 - 230	No	No	124
TC-1000	920	38	6 - 50	81 - 250	No	G1/8"	122
TSC-1000	920	38	6 - 50	81 - 250	No	G1/8"	126
KH-500	470	45	12.7 - 125	2xS + 50	No	G1/8"	78
CN-500	470	45	12.7 - 160	2xS + 85	No	G1/8"	84
G-500	500	45	12 - 125	2xS + 60	No	No	82
KP-750	740	45	10 - 125	2xS + 32	Yes	M6	88
NR-750	740	45	10 - 125	2xS + 47	Yes	M6	90
K-750	740	45	12 - 125	2xS + 50	Yes	G1/8"	92
HD-750	740	45	13 - 200	2xS + 85	Yes	G1/8"	98
KH-750	740	50	12.7 - 125	2xS + 50	Yes	G1/8"	94
HG-750	740	50	12.5 - 200	2xS + 70	Yes	G1/8"	96
G-750	740	50	12.7 - 300	2xS + 95	Yes	G1/8"	100
KP-1000	920	50	13-125	2xS + 38	Yes	M6	108
NR-1000	920	50	13-125	2xS + 52	Yes	G1/8"	112
NT-1000	920	50	13-125	2xS + 52	Yes	G1/8"	114
K-1000	990	50	13-125	2xS + 50	Yes	G1/8"	110
M-1000	920	50	25-160	2xS + 85	Yes	G1/8"	116

NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

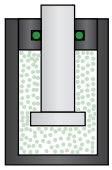
Model	max F_0	Ø mm	S mm	L mm		Linkable	Page
HD-1000	920	50	25 - 300	2xS + 95	Yes	G1/8"	118
T-1800	1800	50	6 - 50	66 - 220	No	No	148
TS-1800	1800	50	6 - 65	66 - 271	No	No	152
TC-1800	1800	50	6 - 50	86 - 240	No	G1/8"	150
TSC-1800	1800	50	6 - 65	86 - 291	No	G1/8"	154
KP-1500	1500	63	13 - 125	2xS + 44	Yes	M6	130
KC-1500	1500	63	12 - 125	2xS + 52	Yes	M6	132
NR-1500	1500	63	13 - 125	2xS + 52	Yes	G1/8"	134
K-1500	1500	63	12 - 125	2xS + 60	Yes	G1/8"	136
M-1500	1500	63	25 - 160	2xS + 85	Yes	G1/8"	140
HD-1500	1500	63	25 - 300	2xS + 95	Yes	G1/8"	144
T-3000	3000	63	10 - 50	85 - 205	No	No	178
TS-3000	3000	63	10 - 65	85 - 256	No	No	182
TC-3000	3000	63	10 - 50	105 - 225	No	G1/8"	180
TSC-3000	3000	63	10 - 65	105 - 276	No	G1/8"	184
KH-1500	1500	75	25 - 125	2xS + 60	Yes	G1/8"	138
HG-1500	1500	75	25 - 200	2xS + 85	Yes	G1/8"	142
G-1500	1500	75	25 - 300	2xS + 110	Yes	G1/8"	146
KP-2400	2400	75	16 - 125	2xS + 45	Yes	M6	158
NR-2400	2400	75	16 - 125	2xS + 59	Yes	G1/8"	160
NT-2400	2400	75	16 - 125	2xS + 59	Yes	G1/8"	162
HD-2400	2400	75	25 - 300	2xS + 110	Yes	G1/8"	168
K-2500	2500	75	12 - 125	2xS + 60	Yes	G1/8"	164
M-2500	2500	75	25 - 160	2xS + 95	Yes	G1/8"	166
KC-3000	3000	75	12 - 125	2xS + 54	Yes	M6	172
T-4700	4700	75	10 - 50	80 - 240	No	No	208
TS-4700	4700	75	10 - 65	80 - 273	No	No	212
TC-4700	4700	75	10 - 50	100 - 260	No	G1/8"	210
TSC-4700	4700	75	10 - 65	100 - 293	No	G1/8"	214
HG-3000	3000	95	25 - 200	2xS + 95	Yes	G1/8"	174
G-3000	3000	95	25 - 300	2xS + 120	Yes	G1/8"	176
K-4000	4000	95	25 - 125	2xS + 70	Yes	G1/8"	194
M-4000	4000	95	25 - 160	2xS + 110	Yes	G1/8"	196
KP-4200	4200	95	16 - 125	2xS + 58	Yes	G1/8"	188
NR-4200	4200	95	16 - 125	2xS + 62	Yes	G1/8"	190
NT-4200	4200	95	16 - 125	2xS + 62	Yes	G1/8"	192
HD-4200	4200	95	25 - 300	2xS + 120	Yes	G1/8"	198
T-7500	7500	95	10 - 50	90 - 255	No	No	234
TS-7500	7500	95	10 - 65	90 - 279	No	No	238
TC-7500	7500	95	10 - 50	110 - 275	No	G1/8"	236
TSC-7500	7500	95	10 - 65	110 - 299	No	G1/8"	240
KC-5000	5000	105	12 - 125	2xS + 60	Yes	M6	202
HG-5000	5000	120	25 - 200	2xS + 102.5	Yes	G1/8"	204
G-5000	5000	120	25 - 300	2xS + 140	Yes	G1/8"	206
M-6500	6400	120	25 - 160	2xS + 115	Yes	G1/8"	224
KP-6600	6600	120	16 - 125	2xS + 68	Yes	G1/8"	218
NR-6600	6600	120	16 - 125	2xS + 72	Yes	G1/8"	220
NT-6600	6600	120	16 - 125	2xS + 72	Yes	G1/8"	222

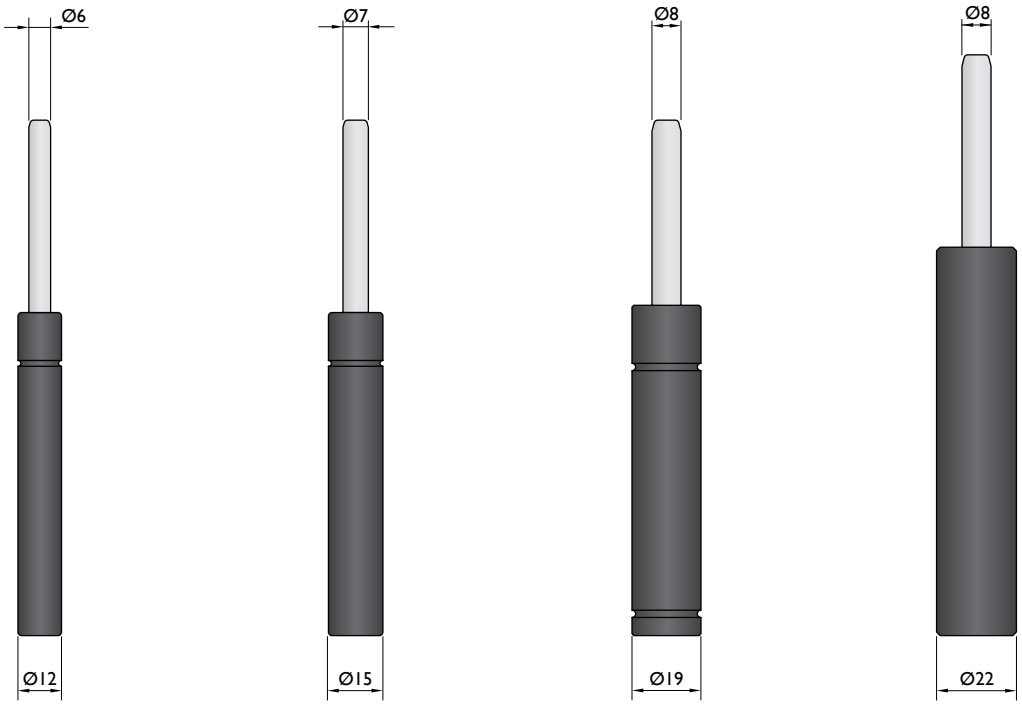
Model	max F_0	Ø mm	S mm	L mm		Linkable	Page
HD-6600	6600	120	25 - 300	2xS + 140	Yes	G1/8"	226
T-11800	11800	120	10 - 50	100 - 260	No	No	256
TS-11800	11800	120	10 - 65	100 - 320	No	No	260
TC-11800	11800	120	10 - 50	120 - 280	No	G1/8"	258
TSC-11800	11800	120	10 - 65	120 - 340	No	G1/8"	262
HG-7500	7500	150	25 - 200	2xS + 105	Yes	G1/8"	230
CN-7500	7500	150	25 - 300	2xS + 155	Yes	G1/8"	232
KP-9500	9500	150	19 - 125	2xS + 78	Yes	G1/8"	244
NT-9500	9500	150	25 - 125	2xS + 78	Yes	G1/8"	246
HD-9500	9500	150	25 - 300	2xS + 155	Yes	G1/8"	250
G-10000	9500	150	25 - 160	2xS + 136	Yes	G1/8"	248
T-18300	18300	150	10 - 50	110 - 270	No	No	270
TS-18300	18300	150	10 - 65	110 - 323	No	No	274
TC-18300	18300	150	10 - 50	130 - 290	No	G1/8"	272
TSC-18300	18300	150	10 - 65	130 - 343	No	G1/8"	276
CN-10000	10600	195	25 - 300	2xS + 160	Yes	G1/8"	252
KP-20000	20000	195	19 - 125	2xS + 110	No	G1/8"	266
HD-20000	20000	195	25 - 300	2xS + 160	No	G1/8"	268

NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

Force ≤ 100 daN

Piston Rod Sealed gas springs





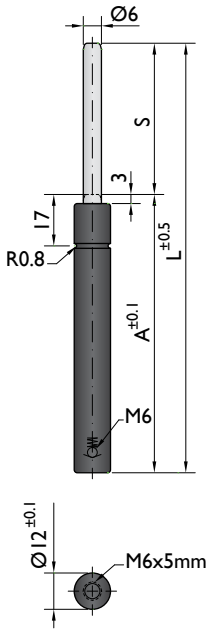
	Z-50	Z-70	R-100	G-100
Model				
Initial F (daN)	13-50	18-70	30-90	30-90
L max (mm)	2xStroke+42	2xStroke+42	2xStroke+42	2xStroke+60
Stroke (mm)	7-125	7-125	7-125	12-125

* other strokes under request

Standards

PED 2014/68/EU	**PED** 2014/68/EU	**PED** 2014/68/EU	**PED** 2014/68/EU
ISO 11901	ISO 11901	**ISO** 11901	ISO 11901
VDI 3003	VDI 3003	**VDI** 3003	VDI 3003
CNOMO EM24.54.700	CNOMO EM24.54.700	CNOMO EM24.54.700	CNOMO EM24.54.700

NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

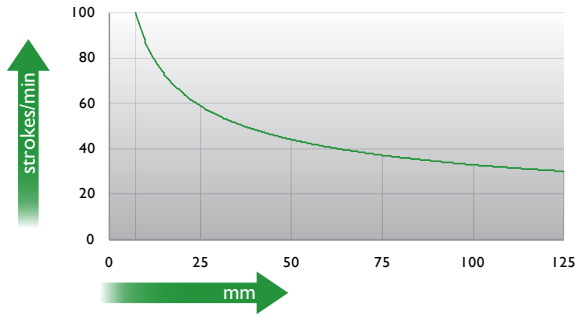


Force / Pressure

		daN	bar (20°C)
V	GREEN	13	45
Z	BLUE	25	90
R	RED	38	135
A	YELLOW	50	180

* maximun force if not specified

Max. strokes / minutes



Ordering example: 4 x Z-50-125 V

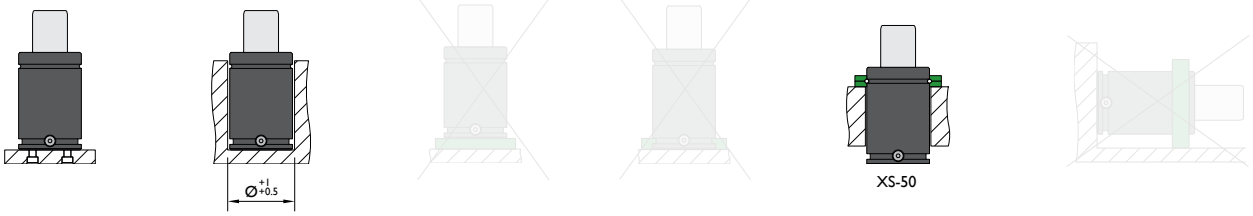
Order No.	S (1) mm	L mm	A mm	F_0 (2) daN (20°C,180 bar)	F daN (20°C,180 bar)		kg
Z-50-7	7	56	49		60	No	0.03
Z-50-10	10	62	52		60	No	0.03
Z-50-13	12.7	67.4	54.7		60	No	0.03
Z-50-15	15	72	57		70	No	0.03
Z-50-19	19	80	61		70	No	0.04
Z-50-25	25	92	67		70	No	0.04
Z-50-38	38	118	80	50	70	No	0.04
Z-50-50	50	142	92		70	No	0.05
Z-50-63	63.5	172	108.5		80	No	0.06
Z-50-75	75	195	120		80	No	0.06
Z-50-80	80	205	125		80	No	0.07
Z-50-100	100	245	145		80	No	0.07
Z-50-125	125	295	170		80	No	0.09

(1) other strokes under request

(2) alternative forces upon request

Pressure medium	N_2	Working temperature	0-80°C	Min. security stroke	10%
Max. Charging pressure	180 bar	Temperature related force increase	+0.34%/°C	Repair Kit	Non-repairable
Min. Charging pressure	25 bar	Max. working speed	1.6 m/s	Linkable	No

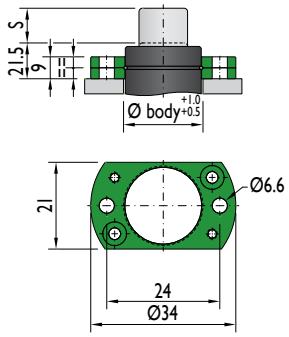
Mounting possibilities

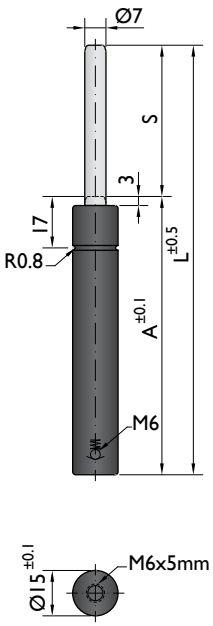


NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

Flanges

XS-50



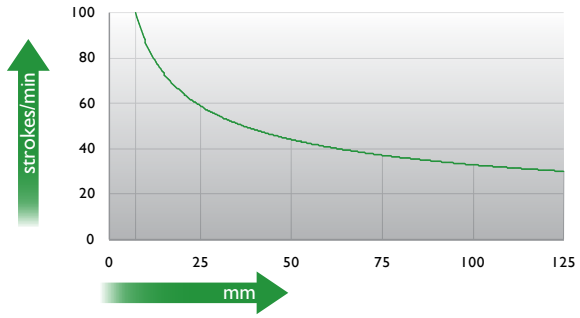


Force / Pressure

		daN	bar (20°C)
V	GREEN	18	45
Z	BLUE	35	90
R	RED	50	135
A	YELLOW	70	180

* maximun force if not specified

Max. strokes / minutes



Ordering example: 4 x Z-70-125 R

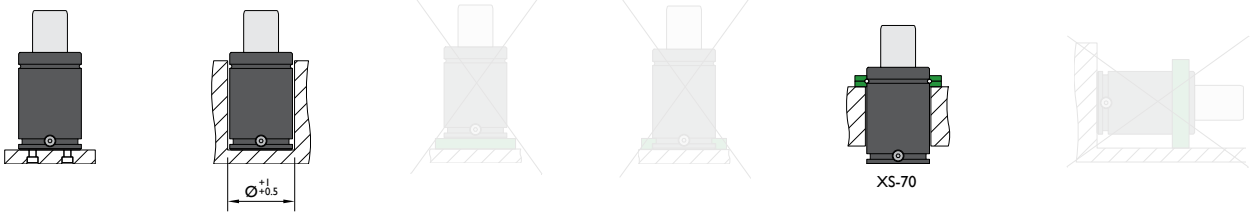
Order No.	S (1) mm	L mm	A mm	F_0 (2) daN (20°C,180 bar)	F daN (20°C,180 bar)		kg
Z-70-7	7	56	49		90	No	0.05
Z-70-10	10	62	52		90	No	0.05
Z-70-13	12.7	67.4	54.7		90	No	0.05
Z-70-15	15	72	57		90	No	0.05
Z-70-19	19	80	61		90	No	0.05
Z-70-25	25	92	67		100	No	0.06
Z-70-38	38.1	118.2	80.1	70	100	No	0.07
Z-70-50	50	142	92		100	No	0.08
Z-70-63	63.5	172	108.5		110	No	0.09
Z-70-75	75	195	120		110	No	0.10
Z-70-80	80	205	125		110	No	0.11
Z-70-100	100	245	145		110	No	0.12
Z-70-125	125	295	170		110	No	0.14

(1) other strokes under request

(2) alternative forces upon request

Pressure medium	N_2	Working temperature	0-80°C	Min. security stroke	10%
Max. Charging pressure	180 bar	Temperature related force increase	+0.34%/°C	Repair Kit	Non-repairable
Min. Charging pressure	25 bar	Max. working speed	1.6 m/s	Linkable	No

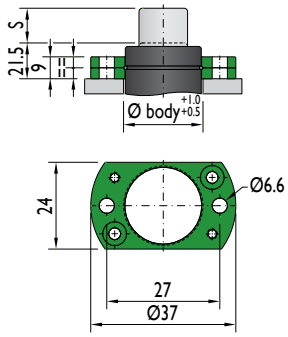
Mounting possibilities



NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

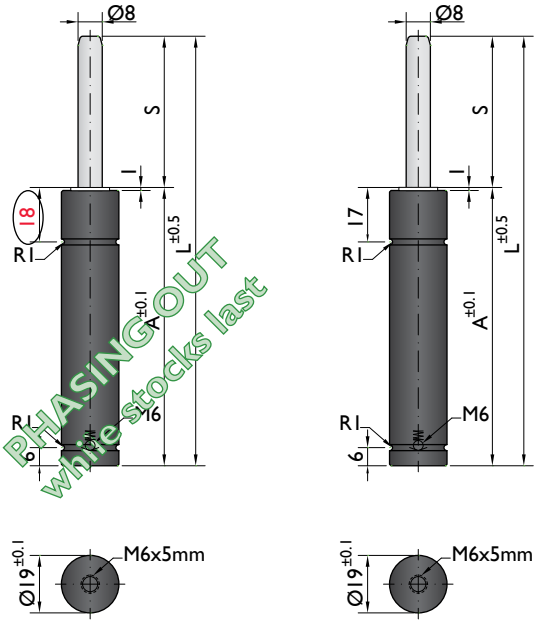
Flanges

XS-70



*The new cylinder will be supplied when the stock runs out.

NEW MODEL*

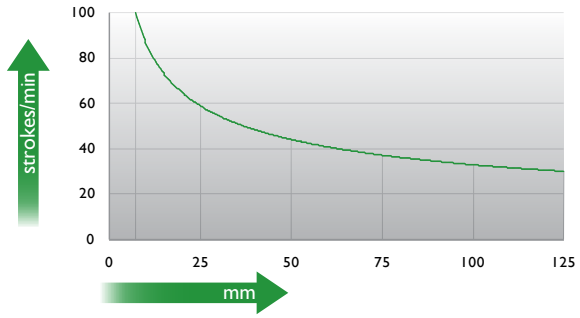


Force / Pressure

		daN	bar (20°C)
V	GREEN	30	60
Z	BLUE	50	100
R	RED	70	140
A	YELLOW	90	180

* maximun force if not specified

Max. strokes / minutes



Ordering example: 4 x R-100-100 V

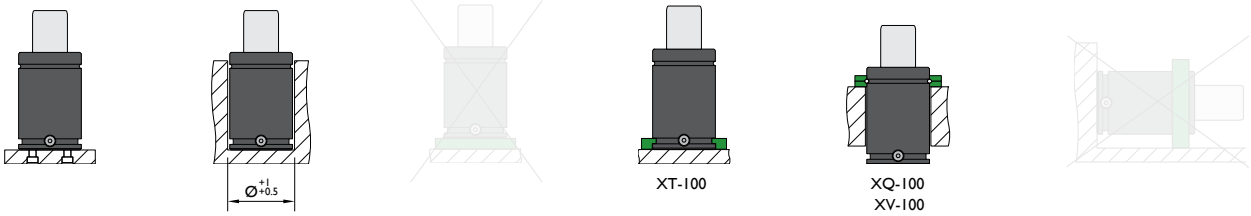
Order No.	S (1) mm	L mm	A mm	F_0 (2) daN (20°C,180 bar)	F daN (20°C,180 bar)		kg
R-100-7	7	56	49	90	110	No	0.07
R-100-10	10	62	52		110	No	0.08
R-100-15	15	72	57		115	No	0.08
R-100-25	25	92	67		120	No	0.08
R-100-38	38.1	118.2	80.1		120	No	0.10
R-100-50	50	142	92		120	No	0.12
R-100-63	63.5	172	108.5		120	No	0.13
R-100-80	80	205	125		120	No	0.14
R-100-100	100	245	145		120	No	0.17
R-100-125	125	295	170		125	No	0.20

(1) other strokes under request

(2) alternative forces upon request

Pressure medium	N_2	Working temperature	0-80°C	Min. security stroke	10%
Max. Charging pressure	180 bar	Temperature related force increase	+0.34%/°C	Repair Kit	Non-repairable
Min. Charging pressure	25 bar	Max. working speed	1.6 m/s	Linkable	No

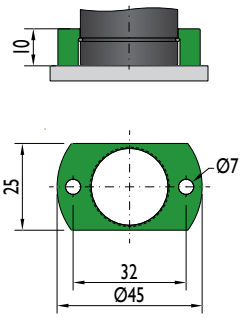
Mounting possibilities



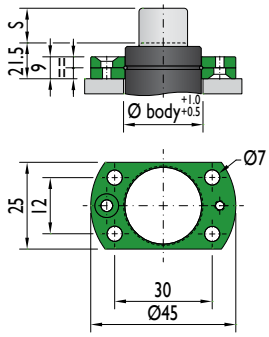
NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

Flanges

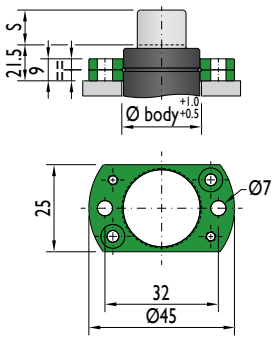
XT-100



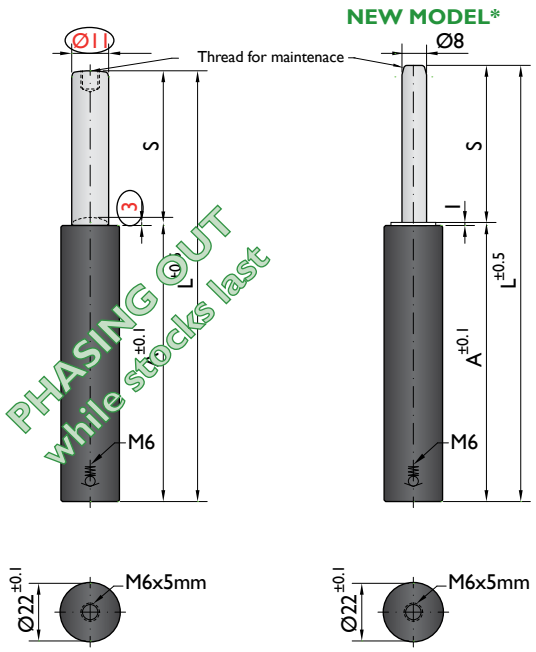
XQ-100



XV-100



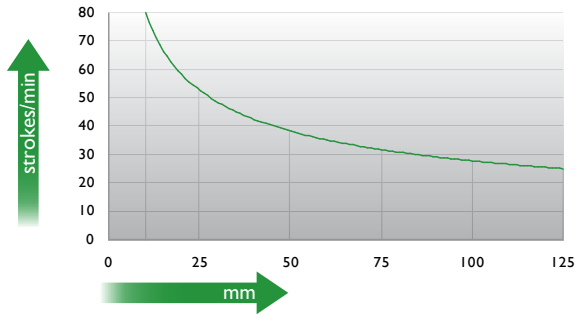
*The new cylinder will be supplied when the stock runs out.



Force / Pressure

		daN	bar (20°C)
V	GREEN	30	60
Z	BLUE	50	100
R	RED	70	140
A	YELLOW	90	180

Max. strokes / minutes



Ordering example: 4 x G-100-125

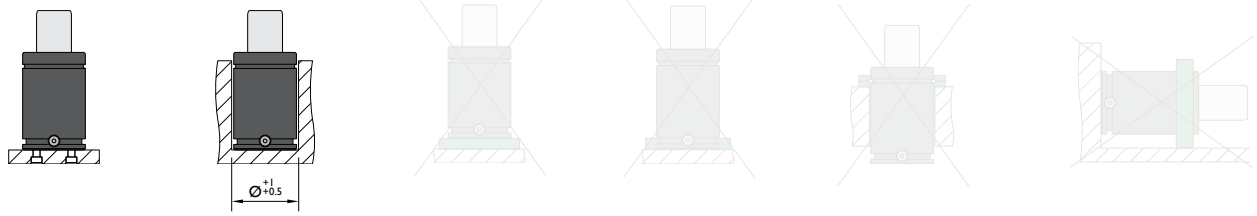
Order No.	S (1) mm	L mm	A mm	F_0 (2) daN (20°C,180 bar)	F daN		kg
G-100-12	12	84	72	90	120	No	0.14
G-100-25	25	110	85		140	No	0.16
G-100-38	38	136	98		150	No	0.18
G-100-50	50	160	110		160	No	0.20
G-100-63	63	186	123		170	No	0.25
G-100-80	80	220	140		170	No	0.30
G-100-100	100	260	160		180	No	0.35
G-100-125	125	310	185		220	No	0.40

(1) other strokes under request

(2) alternative forces upon request

Pressure medium	N_2	Working temperature	0-80°C	Min. security stroke	10%
Max. Charging pressure	180 bar	Temperature related force increase	+0.34%/°C	Repair Kit	KIT G-100
Min. Charging pressure	25 bar	Max. working speed	1.6 m/s	Linkable	No

Mounting possibilities

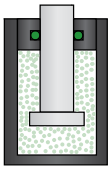


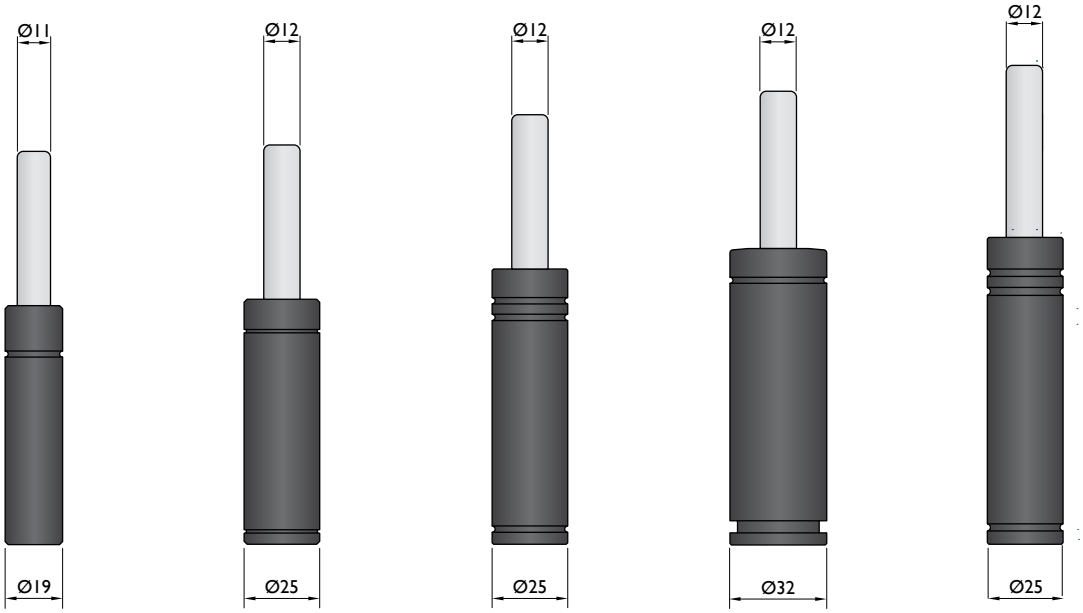
NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

Flanges

Force 150 - 200 daN

Piston Rod Sealed gas springs





	KP-170	K-200	R-200	CN-150	G-200
Model					
Initial F (daN)	170	50-200	50-200	150	50-200
L max (mm)	2xStroke+30	2xStroke+32	2xStroke+42	2xStroke+50	2xStroke+54
Stroke (mm)	7-125	7-125	10-125	10-125	12-125

* other strokes under request

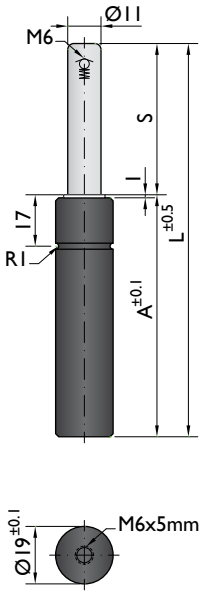
Standards

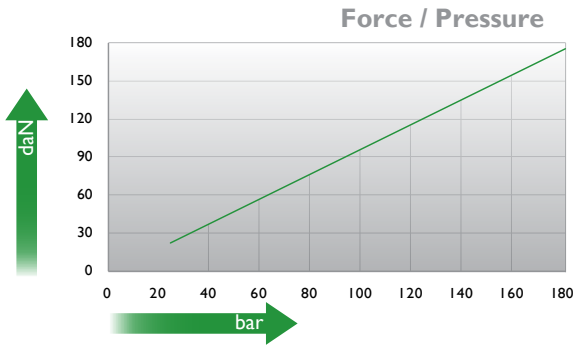
PED 2014/68/EU	**PED** 2014/68/EU	**PED** 2014/68/EU	**PED** 2014/68/EU	**PED** 2014/68/EU
ISO 11901	ISO 11901	**ISO** 11901	**ISO** 11901	ISO 11901
VDI 3003	VDI 3003	**VDI** 3003	**VDI** 3003	VDI 3003
CNOMO EM24.54.700	CNOMO EM24.54.700	CNOMO EM24.54.700	**CNOMO** EM24.54.700	CNOMO EM24.54.700

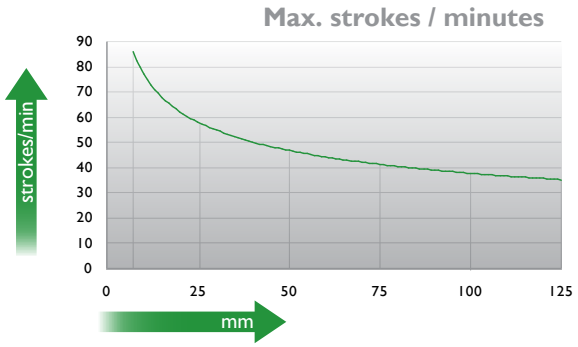
NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

KP-170

Low Profile - High Force







Ordering example: 4 x KP-170-125

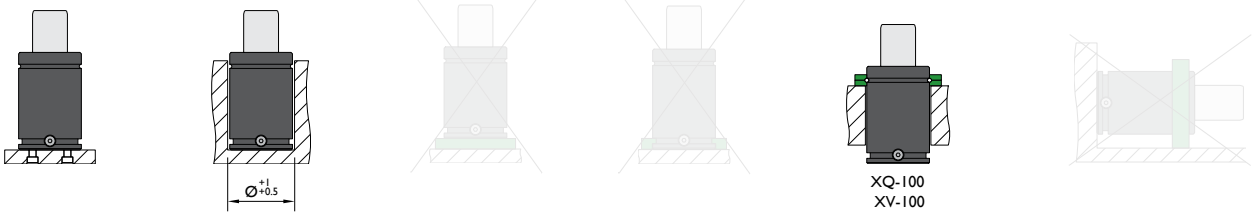
Order No.	S (1) mm	L mm	A mm	F_0 (2) daN (20°C,180 bar)	F daN		kg
KP-170-7	7	44	37	170	310	No	0.05
KP-170-10	10	50	40		320	No	0.07
KP-170-15	15	60	45		320	No	0.07
KP-170-19	19	68	49		325	No	0.07
KP-170-25	25	80	55		330	No	0.09
KP-170-38	38	106	68		330	No	0.10
KP-170-50	50	130	80		330	No	0.12
KP-170-63	63	156	93		330	No	0.14
KP-170-75	75	185	110		320	No	0.15
KP-170-80	80	195	115		325	No	0.17
KP-170-100	100	235	135		325	No	0.20
KP-170-125	125	285	160		330	No	0.23

(1) other strokes under request

(2) alternative forces upon request

Pressure medium	N_2	Working temperature	0-80°C	Min. security stroke	10%
Max. Charging pressure	180 bar	Temperature related force increase	+0.34%/°C	Repair Kit	Non-repairable
Min. Charging pressure	25 bar	Max. working speed	1.6 m/s	Linkable	No

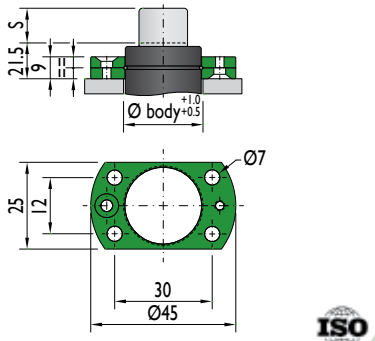
Mounting possibilities



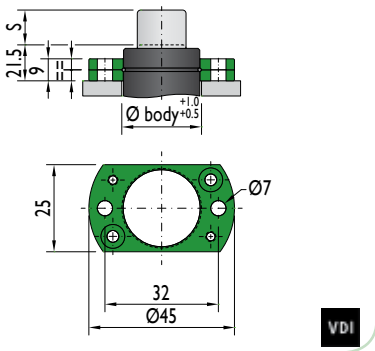
NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

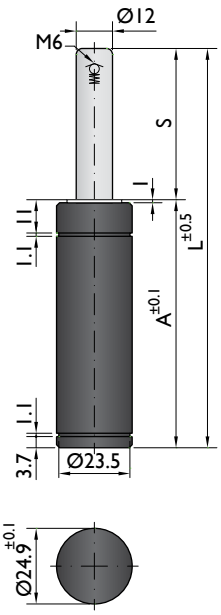
Flanges

XQ-100



XV-100



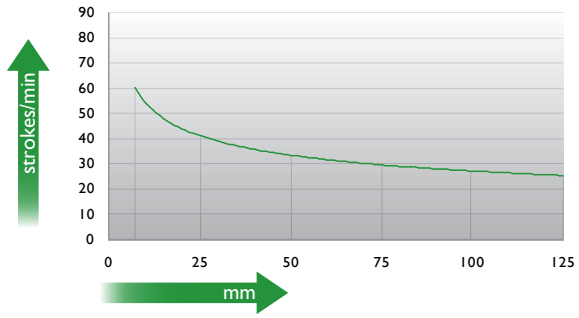


Force / Pressure

		daN	bar (20°C)
V	GREEN	50	45
Z	BLUE	100	90
R	RED	150	135
A	YELLOW	200	180

* maximun force if not specified

Max. strokes / minutes



Ordering example: 4 x K-200-125 V

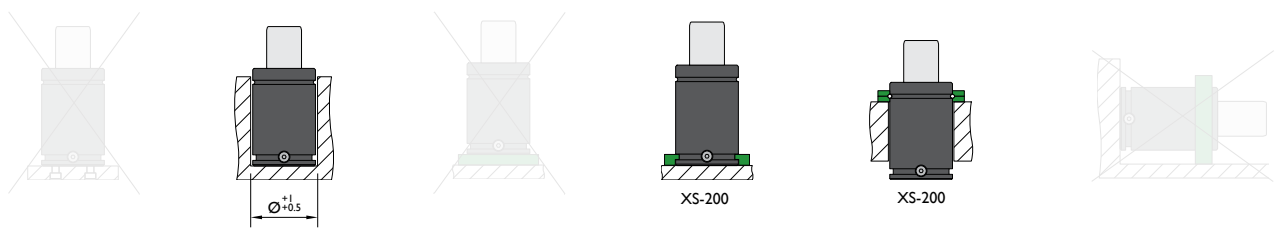
Order No.	S (1) mm	L mm	A mm	F_0 (2) daN (20°C,180 bar)	F daN		kg
K-200-7	7	46	39	200	300	No	0.11
K-200-12	12	56	44		300	No	0.12
K-200-16	16	64	48		300	No	0.13
K-200-25	25	82	57		310	No	0.15
K-200-38	38	108	70		310	No	0.18
K-200-50	50	132	82		310	No	0.21
K-200-63	63	158	95		310	No	0.24
K-200-80	80	192	112		310	No	0.28
K-200-100	100	232	132		310	No	0.30
K-200-125	125	282	157		310	No	0.33

(1) other strokes under request

(2) alternative forces upon request

Pressure medium	N_2	Working temperature	0-80°C	Min. security stroke	10%
Max. Charging pressure	180 bar	Temperature related force increase	+0.34%/°C	Repair Kit	KIT K-200
Min. Charging pressure	25 bar	Max. working speed	1.6 m/s	Linkable	No

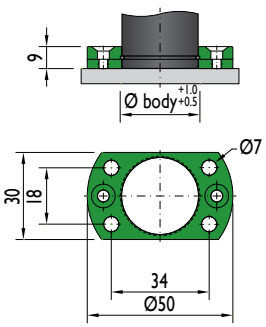
Mounting possibilities



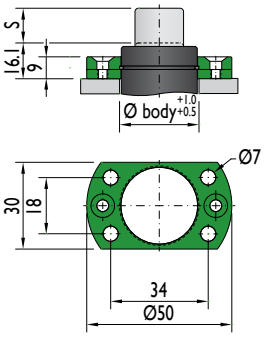
NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

Flanges

XS-200

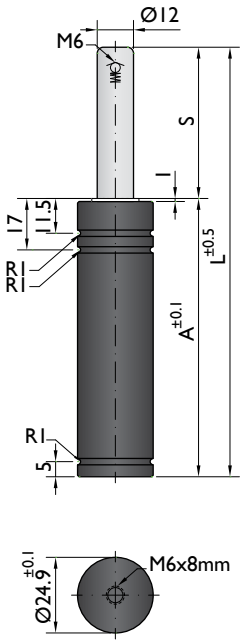


XS-200



Special mounts available on

www.nitrogas.com

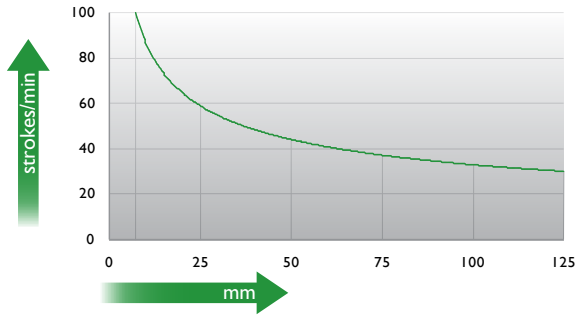


Force / Pressure

		daN	bar (20°C)
V	GREEN	50	45
Z	BLUE	100	90
R	RED	150	135
A	YELLOW	200	180

* maximun force if not specified

Max. strokes / minutes



Ordering example: 4 x R-200-125 V

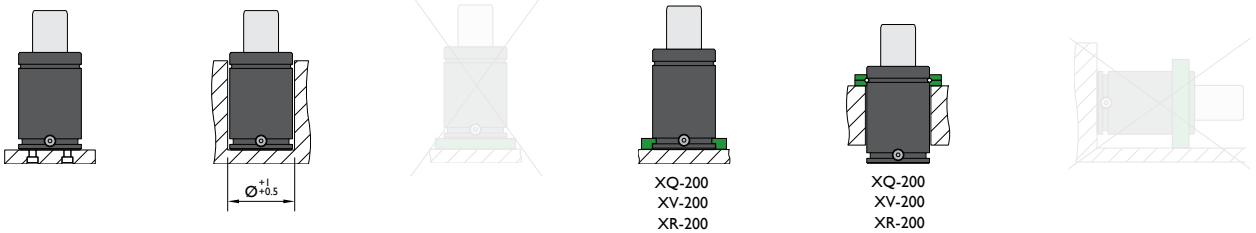
Order No.	S (1) mm	L mm	A mm	F_0 (2) daN (20°C,180 bar)	F daN (20°C,180 bar)		kg
R-200-10	10	62	52		260	No	0.14
R-200-13	12.7	67.4	54.7		260	No	0.15
R-200-15	15	72	57		260	No	0.15
R-200-16	16	74	58		260	No	0.16
R-200-25	25	92	67		270	No	0.17
R-200-38	38.1	118.2	80.1	200	280	No	0.20
R-200-50	50	142	92		280	No	0.22
R-200-63	63.5	172	108.5		290	No	0.25
R-200-80	80	205	125		290	No	0.28
R-200-100	100	245	145		290	No	0.32
R-200-125	125	295	170		290	No	0.37

(1) other strokes under request

(2) alternative forces upon request

Pressure medium	N_2	Working temperature	0-80°C	Min. security stroke	10%
Max. Charging pressure	180 bar	Temperature related force increase	+0.34%/°C	Repair Kit	KIT R-200
Min. Charging pressure	25 bar	Max. working speed	1.6 m/s	Linkable	No

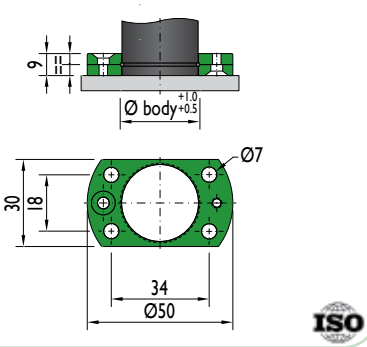
Mounting possibilities



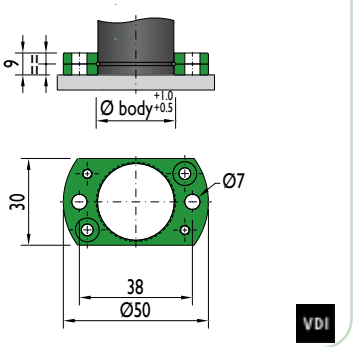
NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

Flanges

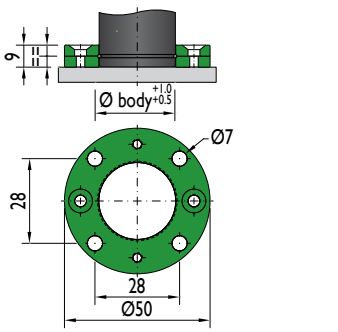
XQ-200



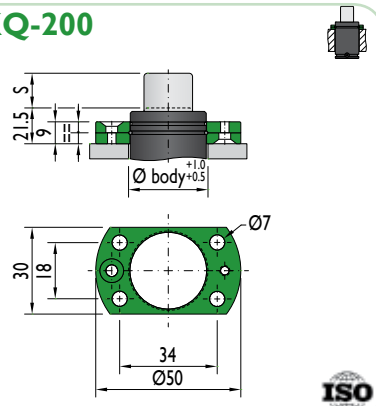
XV-200



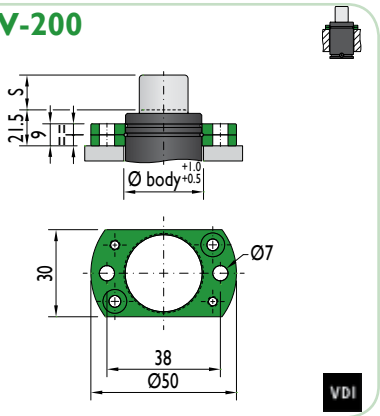
XR-200



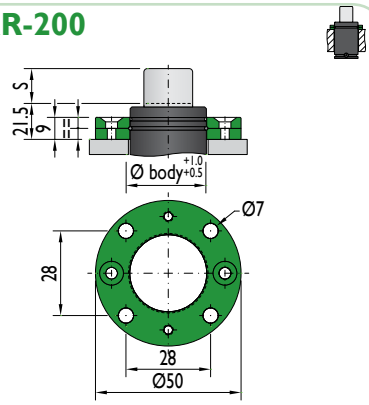
XQ-200



XV-200

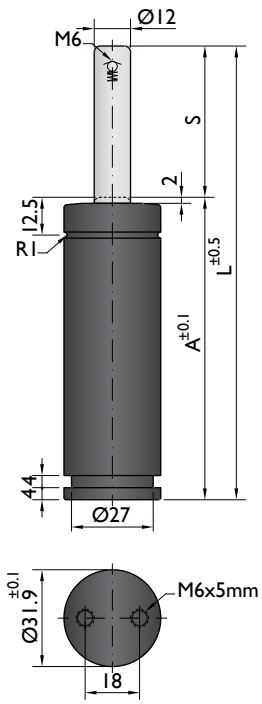


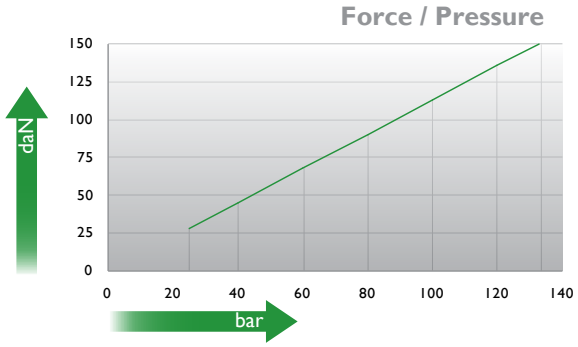
XR-200

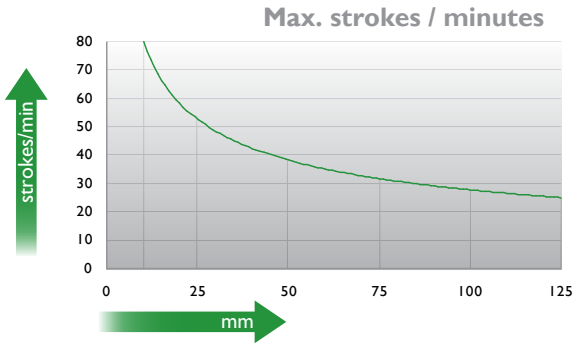


CNOMO
EM24.54.700

PSA
E24.54.815.G







Ordering example: 4 x CN-150-125

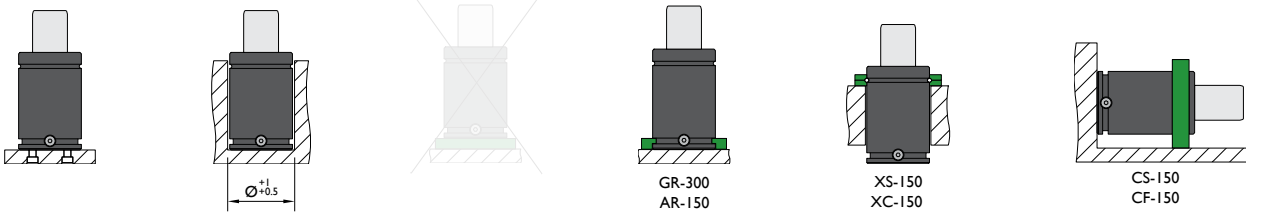
Order No.	S [1] mm	L mm	A mm	F_0 [2] daN (20°C,135 bar)	F daN		kg
CN-150-10	10	70	60	150	170	No	0.27
CN-150-13	12.7	75.4	62.7		180	No	0.28
CN-150-16	16	82	66		180	No	0.29
CN-150-25	25	100	75		180	No	0.33
CN-150-38	38.1	126.2	88.1		180	No	0.38
CN-150-50	50	150	100		190	No	0.43
CN-150-63	63.5	177	113.5		200	No	0.48
CN-150-80	80	210	130		200	No	0.56
CN-150-100	100	250	150		200	No	0.64
CN-150-125	125	300	175		200	No	0.73

[1] other strokes under request

[2] alternative forces upon request

Pressure medium	N_2	Working temperature	0-80°C	Min. security stroke	10%
Max. Charging pressure	135 bar	Temperature related force increase	+0.34%/°C	Repair Kit	KIT CN-150
Min. Charging pressure	25 bar	Max. working speed	1.6 m/s	Linkable	No

Mounting possibilities

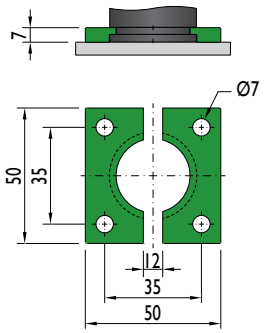


Flange must not support spring's force

NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

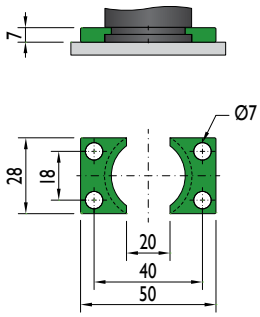
Flanges

GR-300

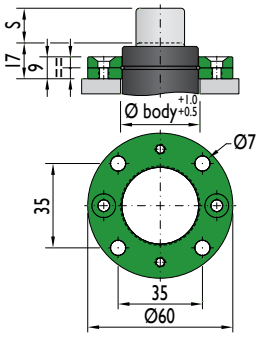


ISO

AR-150

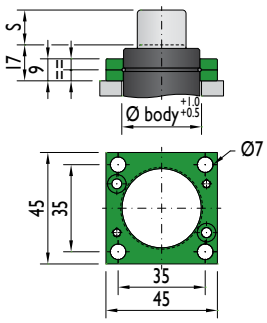


XS-150



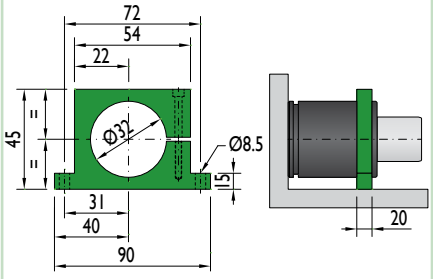
ISO

XC-150



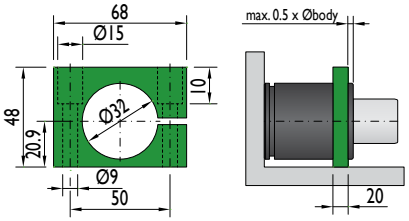
VDI

CS-150



Flange must not support spring's force

CF-150

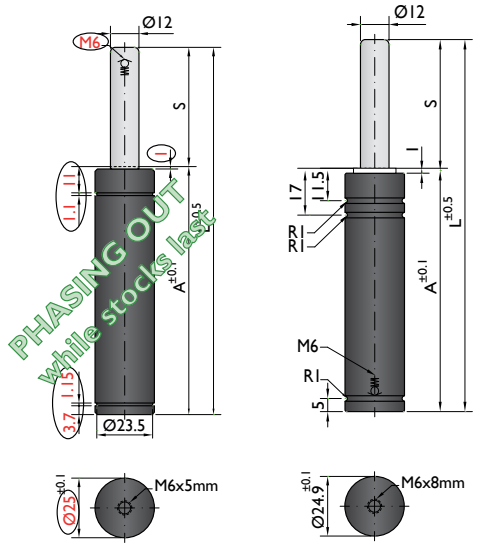


Flange must not support spring's force

VDI

*The new cylinder will be supplied when the stock runs out.

NEW MODEL*

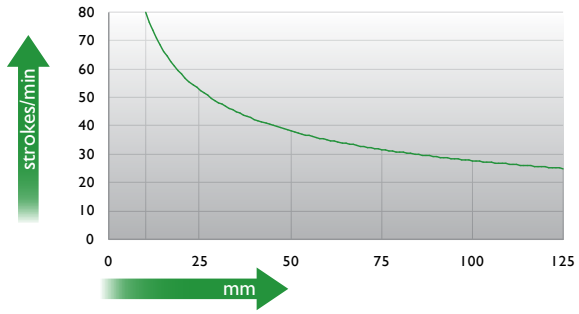


Force / Pressure

		daN	bar (20°C)
V	GREEN	50	45
Z	BLUE	100	90
R	RED	150	135
A	YELLOW	200	180

* maximun force if not specified

Max. strokes / minutes



Ordering example: 4 x G-200-80 Z

Order No.	S (1) mm	L mm	A mm	F_0 (2) daN (20°C,180 bar)	F daN		kg
G-200-12	12	78	66	200	230	No	0.16
G-200-25	25	104	79		250	No	0.19
G-200-38	38	130	92		260	No	0.22
G-200-50	50	154	104		270	No	0.25
G-200-63	63	180	117		290	No	0.29
G-200-80	80	214	134		290	No	0.33
G-200-100 (*)	100	254	154		310	No	0.36
G-200-125 (*)	125	304	179		310	No	0.42

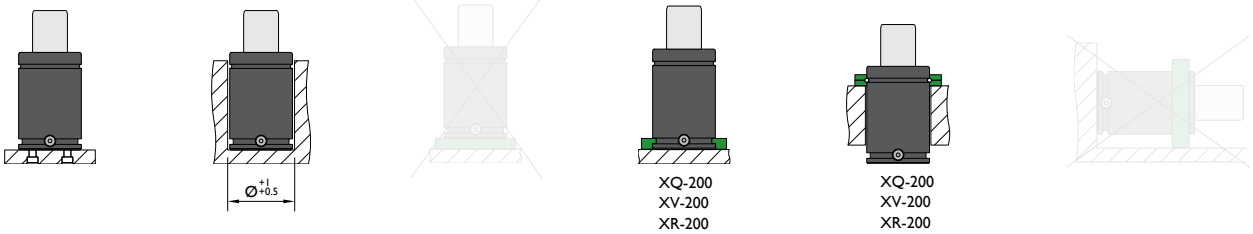
(1) other strokes under request

(2) alternative forces upon request

* New version lenght

Pressure medium	N_2	Working temperature	0-80°C	Min. security stroke	10%
Max. Charging pressure	180 bar	Temperature related force increase	+0.34%/°C	Repair Kit	KIT G-200
Min. Charging pressure	25 bar	Max. working speed	1.6 m/s	Linkable	No

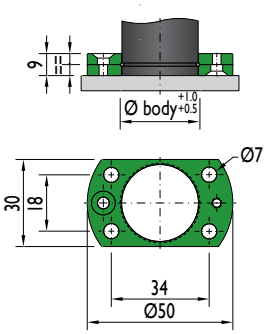
Mounting possibilities



NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

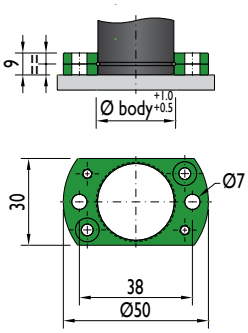
Flanges

XQ-200



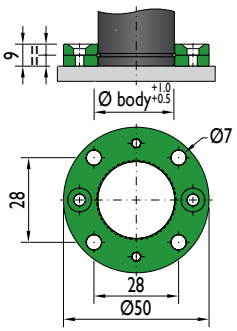
ISO

XV-200

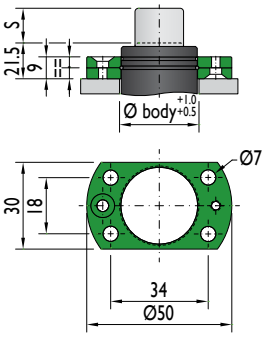


VDI

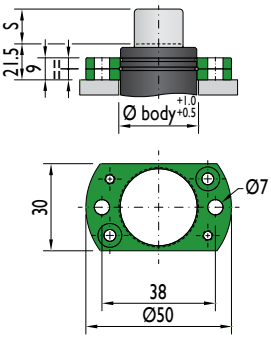
XR-200



XQ-200

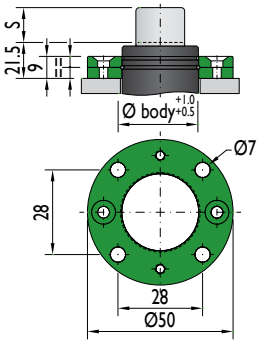


XV-200



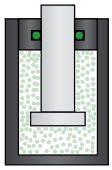
VDI

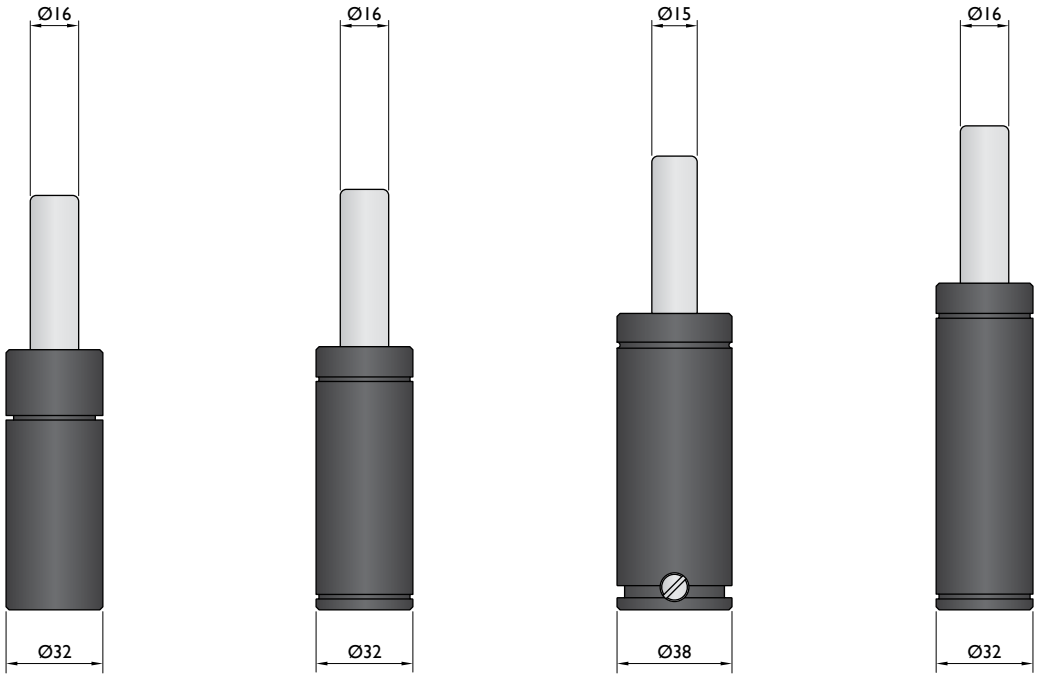
XR-200



Force 250 - 300 daN

Piston Rod Sealed gas springs





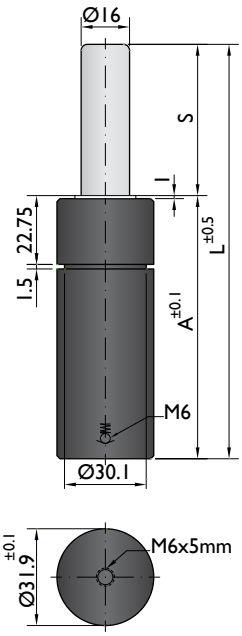
	KC-300	K-300	CN-250	G-300
Model				
Initial F (daN)	300	100-300	265	100-300
L max (mm)	2xStroke+37	2xStroke+39	2xStroke+50	2xStroke+60
Stroke (mm)	7-125	7-125	10-125	12-125

* other strokes under request

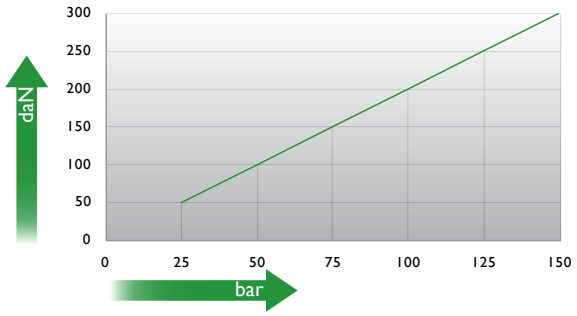
Standards

PED 2014/68/EU	**PED** 2014/68/EU	**PED** 2014/68/EU	**PED** 2014/68/EU
ISO 11901	ISO 11901	**ISO** 11901	ISO 11901
VDI 3003	VDI 3003	**VDI** 3003	VDI 3003
CNOMO EM24.54.700	CNOMO EM24.54.700	**CNOMO** EM24.54.700	CNOMO EM24.54.700

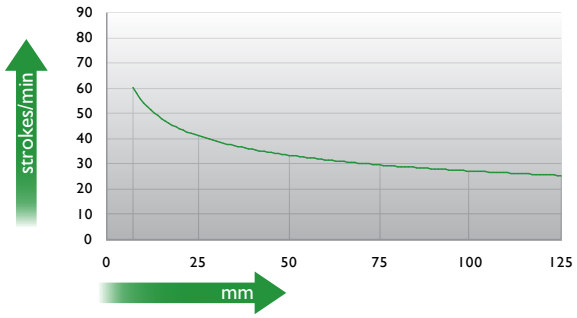
NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com



Force / Pressure



Max. strokes / minutes



Ordering example: 4 x KC-300-125

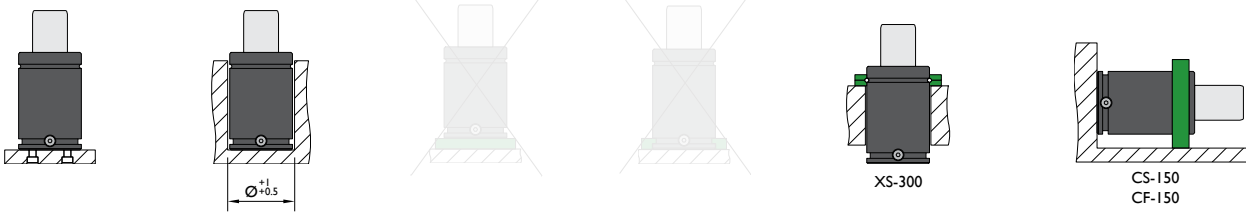
Order No.	S (1) mm	L mm	A mm	F_0 (2) daN (20°C,150 bar)	F daN		kg
KC-300-7	7	51	44	300	420	No	0.19
KC-300-12	12	61	49		440	No	0.21
KC-300-16	16	69	53		440	No	0.23
KC-300-25	25	87	62		440	No	0.25
KC-300-38	38	113	75		450	No	0.30
KC-300-50	50	137	87		450	No	0.33
KC-300-63	63	163	100		450	No	0.38
KC-300-80	80	197	117		450	No	0.44
KC-300-100	100	237	137		450	No	0.51
KC-300-125	125	287	162		460	No	0.58

(1) other strokes under request

(2) alternative forces upon request

Pressure medium	N_2	Working temperature	0-80°C	Min. security stroke	10%
Max. Charging pressure	150 bar	Temperature related force increase	+0.34%/°C	Repair Kit	KIT KC-300
Min. Charging pressure	25 bar	Max. working speed	1.6 m/s	Linkable	No

Mounting possibilities

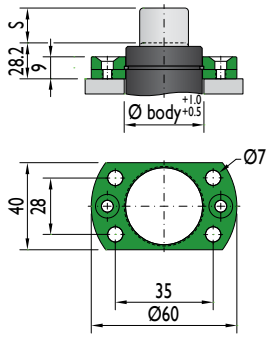


Flange must not support spring's force

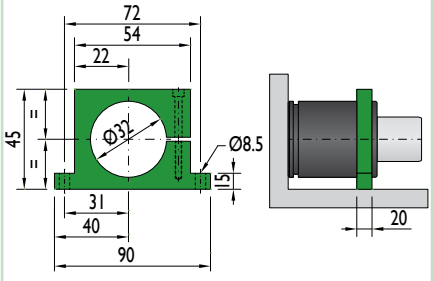
NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

Flanges

XS-300

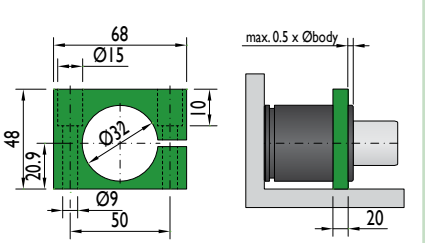


CS-150



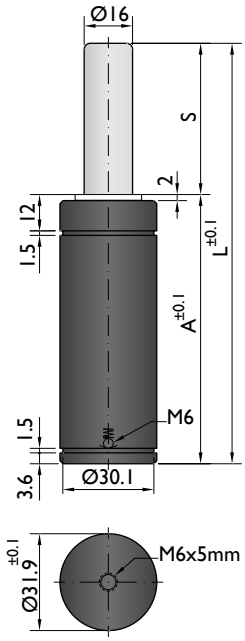
Flange must not support spring's force

CF-150



Flange must not support spring's force

VDI

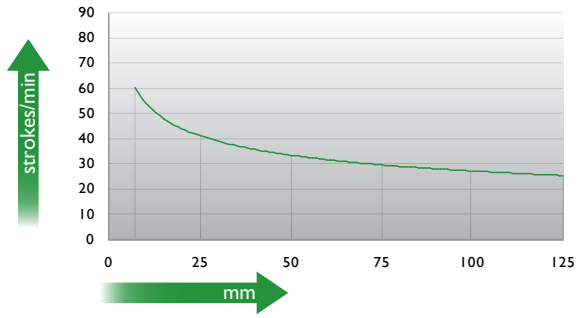


Force / Pressure

		daN	bar (20°C)
V	GREEN	100	50
Z	BLUE	200	100
R	RED	250	125
A	YELLOW	300	150

* maximun force if not specified

Max. strokes / minutes



Ordering example: 4 x K-300-125 V

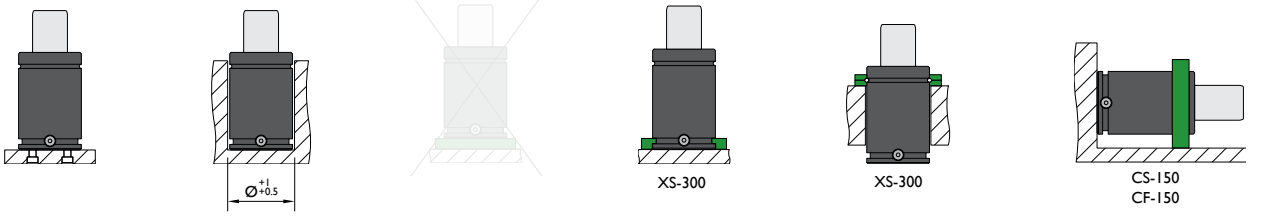
Order No.	S (1) mm	L mm	A mm	F_0 (2) daN (20°C,150 bar)	F daN		kg
K-300-7	7	53	46	300	400	No	0.23
K-300-12	12	63	51		420	No	0.24
K-300-16	16	71	55		420	No	0.25
K-300-25	25	89	64		430	No	0.28
K-300-38	38	115	77		450	No	0.32
K-300-50	50	139	89		450	No	0.36
K-300-63	63	165	102		450	No	0.40
K-300-80	80	199	119		450	No	0.46
K-300-100	100	239	139		450	No	0.53
K-300-125	125	289	164		460	No	0.59

(1) other strokes under request

(2) alternative forces upon request

Pressure medium	N_2	Working temperature	0-80°C	Min. security stroke	10%
Max. Charging pressure	150 bar	Temperature related force increase	+0.34%/°C	Repair Kit	KIT K-300
Min. Charging pressure	25 bar	Max. working speed	1.6 m/s	Linkable	No

Mounting possibilities

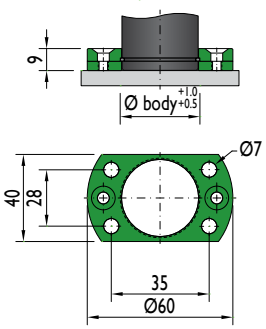


Flange must not support spring's force

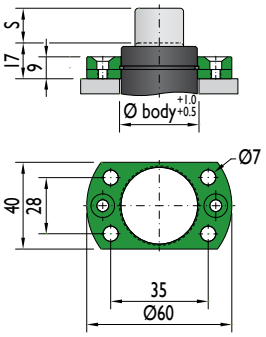
NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

Flanges

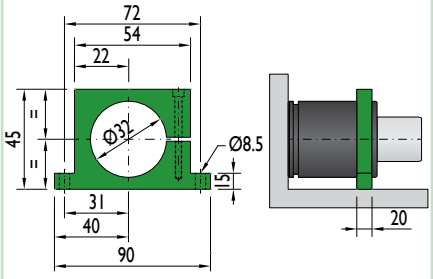
XS-300



XS-300

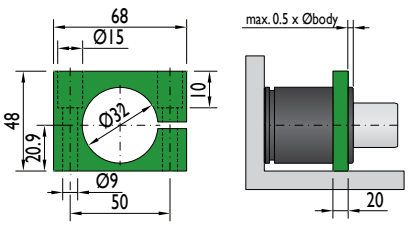


CS-150



Flange must not support spring's force

CF-150



Flange must not support spring's force

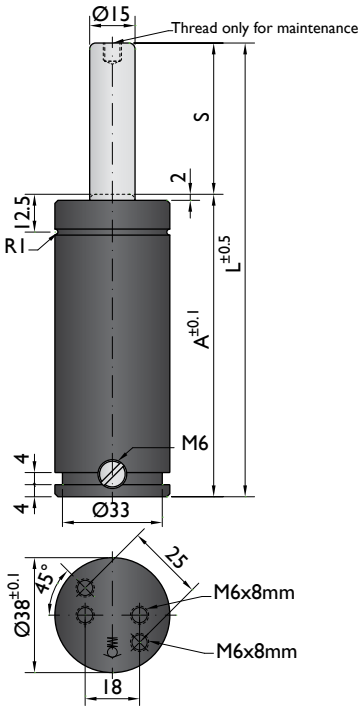
VDI

Special mounts available on

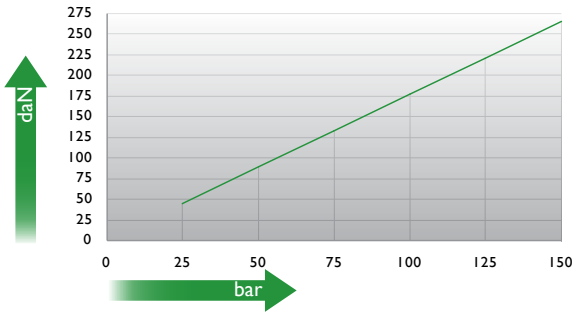
www.nitrogas.com

CNOMO
EM24.54.700

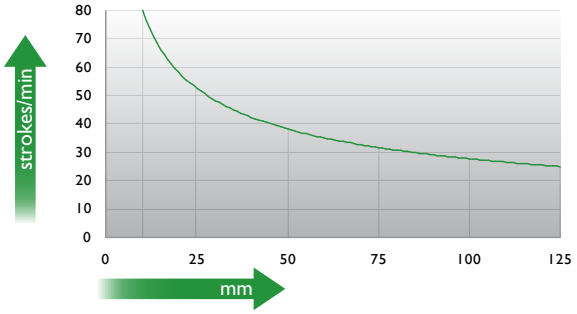
PSA
E24.54.815.G



Force / Pressure



Max. strokes / minutes



Ordering example: 4 x CN-250-125

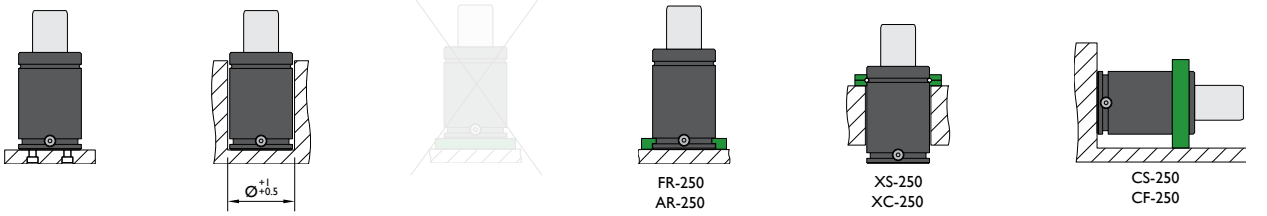
Order No.	S (1) mm	L mm	A mm	F_0 (2) daN (20°C,150 bar)	F daN		kg
CN-250-10	10	70	60		310	No	0.40
CN-250-13	12.7	75.4	62.7		310	No	0.42
CN-250-16	16	82	66		320	No	0.43
CN-250-19	19	88	69		330	No	0.45
CN-250-25	25	100	75		330	No	0.51
CN-250-38	38.1	126.2	88.1	265	340	No	0.57
CN-250-50	50	150	100		350	No	0.63
CN-250-63	63.5	177	113.5		350	No	0.75
CN-250-80	80	210	130		360	No	0.81
CN-250-100	100	250	150		360	No	0.92
CN-250-125	125	300	175		360	No	1.10

(1) other strokes under request

(2) alternative forces upon request

Pressure medium	N_2	Working temperature	0-80°C	Min. security stroke	10%
Max. Charging pressure	150 bar	Temperature related force increase	+0.34%/°C	Repair Kit	KIT CN-250
Min. Charging pressure	25 bar	Max. working speed	1.6 m/s	Linkable	M6

Mounting possibilities

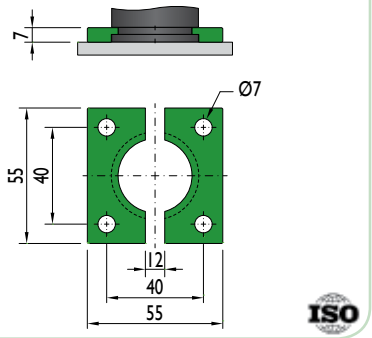


Flange must not support spring's force

NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

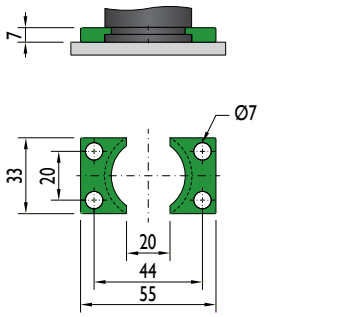
Flanges

FR-250

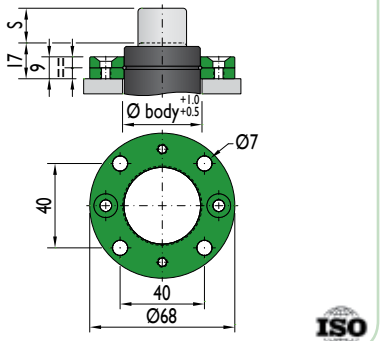


ISO

AR-250

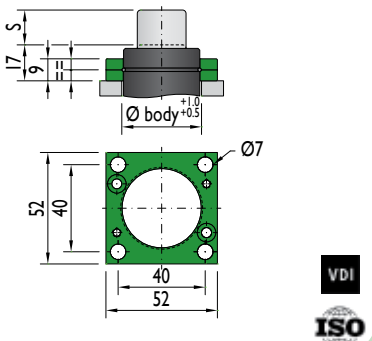


XS-250



ISO

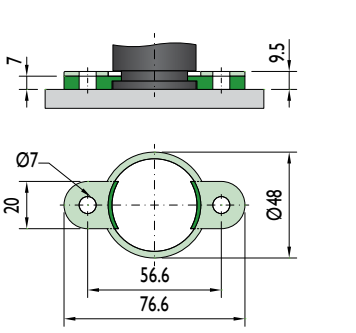
XC-250



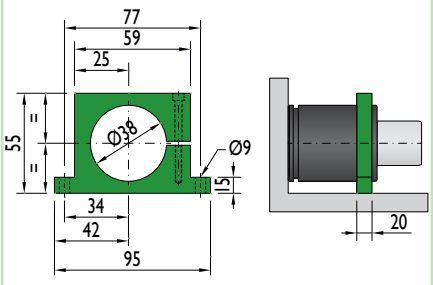
VDI

ISO

PR-250

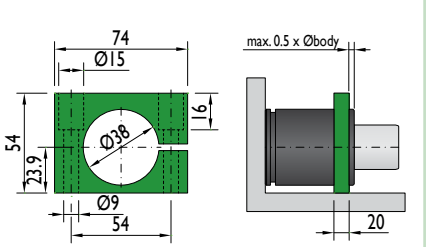


CS-250



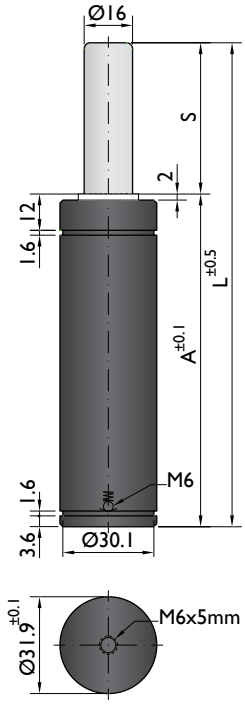
Flange must not support spring's force

CF-250



Flange must not support spring's force

VDI

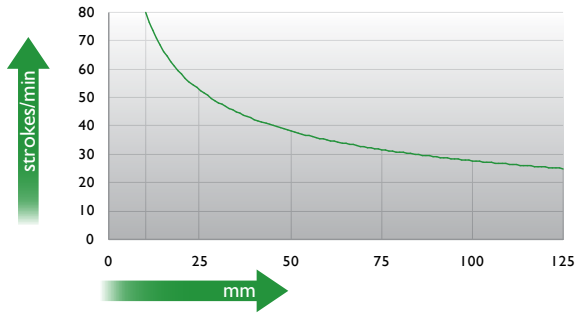


Force / Pressure

		daN	bar (20°C)
V	GREEN	100	50
Z	BLUE	200	100
R	RED	250	125
A	YELLOW	300	150

* maximun force if not specified

Max. strokes / minutes



Ordering example: 4 x G-300-125 Z

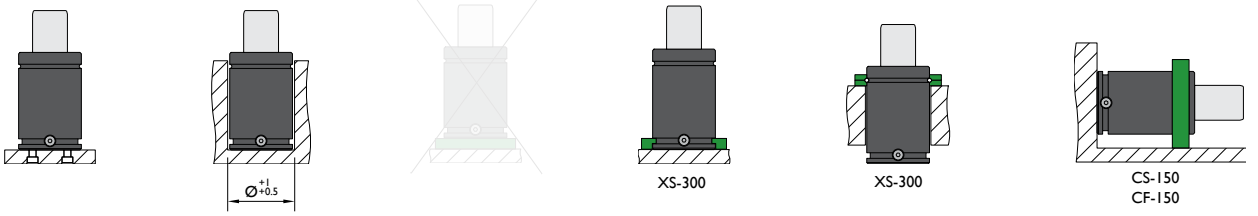
Order No.	S (1) mm	L mm	A mm	F_0 (2) daN (20°C,150 bar)	F daN		kg
G-300-12	12	84	72	300	340	No	0.28
G-300-25	25	110	85		370	No	0.33
G-300-38	38	136	98		380	No	0.37
G-300-50	50	160	110		390	No	0.41
G-300-63	63	186	123		420	No	0.49
G-300-80	80	220	140		430	No	0.56
G-300-100	100	260	160		440	No	0.64
G-300-125	125	310	185		450	No	0.74

(1) other strokes under request

(2) alternative forces upon request

Pressure medium	N_2	Working temperature	0-80°C	Min. security stroke	10%
Max. Charging pressure	150 bar	Temperature related force increase	+0.34%/°C	Repair Kit	KIT G-300
Min. Charging pressure	25 bar	Max. working speed	1.6 m/s	Linkable	No

Mounting possibilities

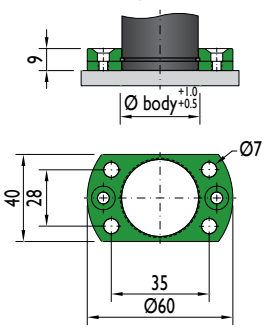


Flange must not support spring's force

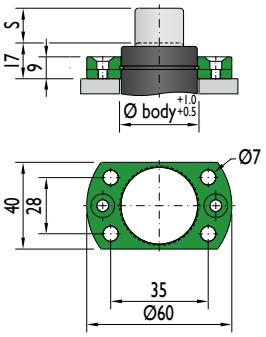
NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

Flanges

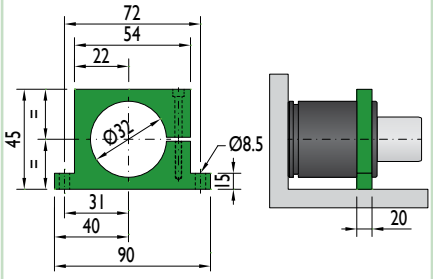
XS-300



XS-300

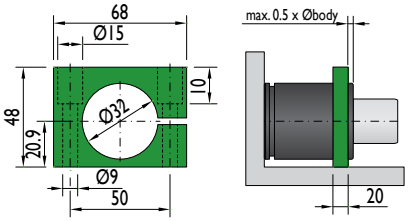


CS-150



Flange must not support spring's force

CF-150

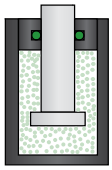


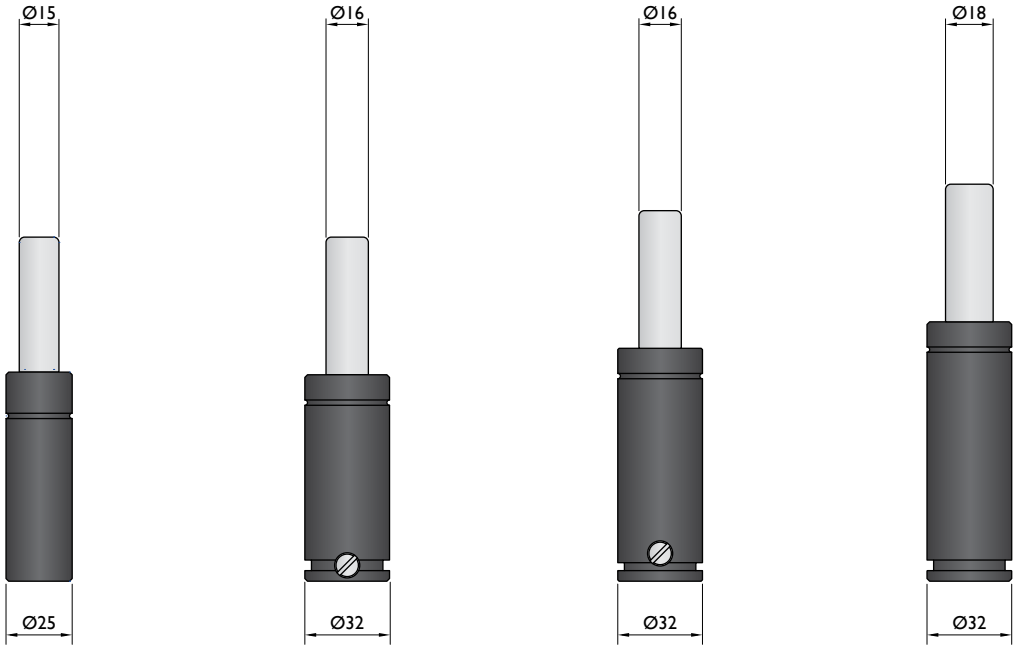
Flange must not support spring's force

VDI

Force 320 - 450 daN

Piston Rod Sealed gas springs





	KP-320	KP-350	NR-350	M-350
Model				
Initial F (daN)	320	360	360	350
L max (mm)	2xStroke+30	2xStroke+30	2xStroke+40	2xStroke+50
Stroke (mm)	7-125	10-125	10-125	15-125

* other strokes under request

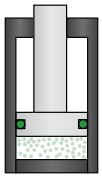
Standards

KP-320	KP-350	NR-350	M-350
PED 2014/68/EU	**PED** 2014/68/EU	**PED** 2014/68/EU	**PED** 2014/68/EU
ISO 11901	**ISO** 11901	ISO 11901	ISO 11901
VDI 3003	**VDI** 3003	VDI 3003	VDI 3003
CNOMO EM24.54.700	CNOMO EM24.54.700	CNOMO EM24.54.700	CNOMO EM24.54.700

NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

Force 320 - 450 daN

Bore Sealed gas springs



	T-420	TS-420
Model		
Initial F (daN)	420	420
L max (mm)	56-195	56-195
Stroke (mm)	6-50	6-50

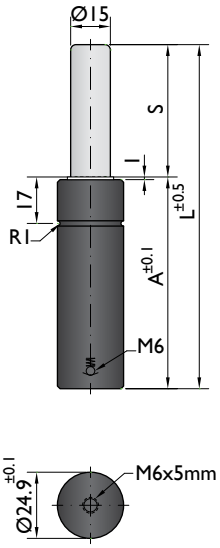
* other strokes under request

Standards

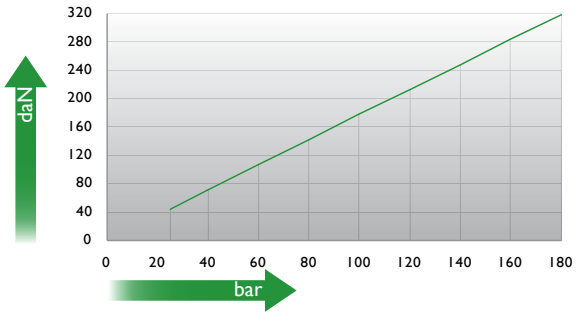
PED 2014/68/EU	**PED** 2014/68/EU
ISO 11901	ISO 11901
VDI 3003	VDI 3003
CNOMO EM24.54.700	CNOMO EM24.54.700

KP-320

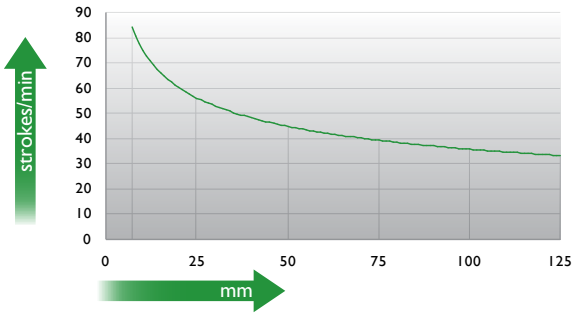
Low Profile - High Force



Force / Pressure



Max. strokes / minutes



Ordering example: 4 x KP-320-125

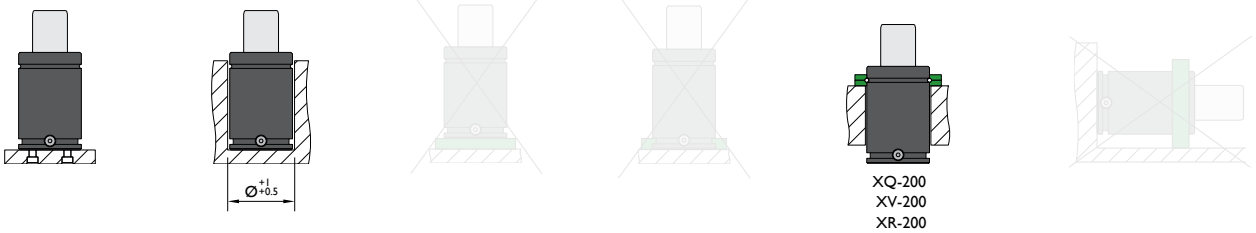
Order No.	S (1) mm	L mm	A mm	F_0 (2) daN (20°C,180 bar)	F daN		kg
KP-320-7	7	44	37	320	450	No	0.09
KP-320-10	10	50	40		470	No	0.10
KP-320-15	15	60	45		500	No	0.11
KP-320-19	19	68	49		510	No	0.12
KP-320-25	25	80	55		530	No	0.13
KP-320-38	38	106	68		550	No	0.16
KP-320-50	50	130	80		560	No	0.19
KP-320-63	63	156	93		560	No	0.22
KP-320-75	75	185	110		560	No	0.24
KP-320-80	80	195	115		560	No	0.25
KP-320-100	100	235	135		560	No	0.30
KP-320-125	125	285	160		560	No	0.36

(1) other strokes under request

(2) alternative forces upon request

Pressure medium	N_2	Working temperature	0-80°C	Min. security stroke	10%
Max. Charging pressure	180 bar	Temperature related force increase	+0.34%/°C	Repair Kit	Non-repairable
Min. Charging pressure	25 bar	Max. working speed	1.6 m/s	Linkable	No

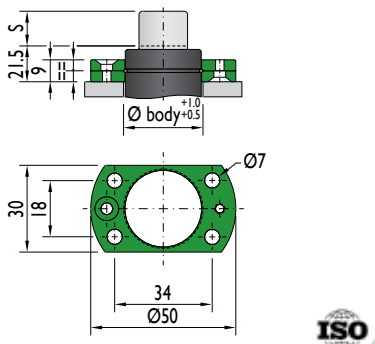
Mounting possibilities



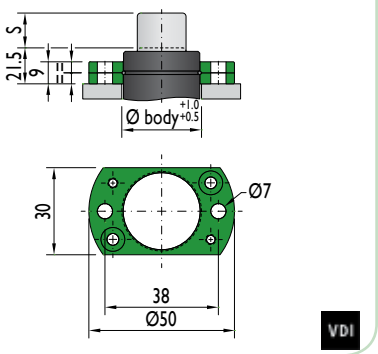
NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

Flanges

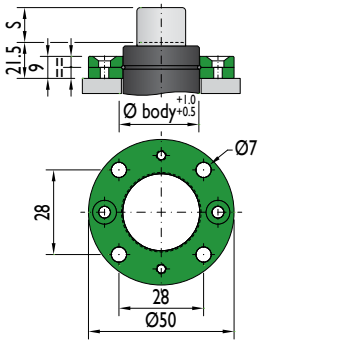
XQ-200



XV-200

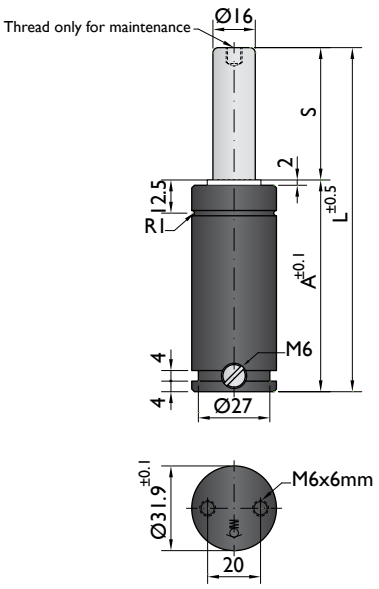


XR-200

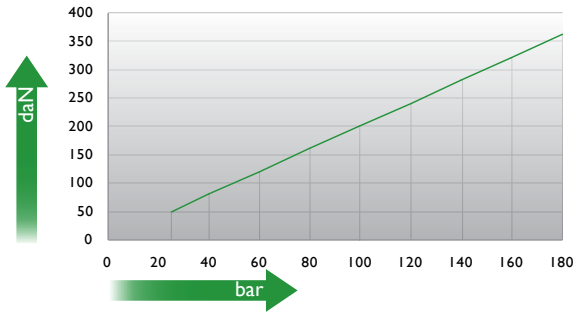


KP-350

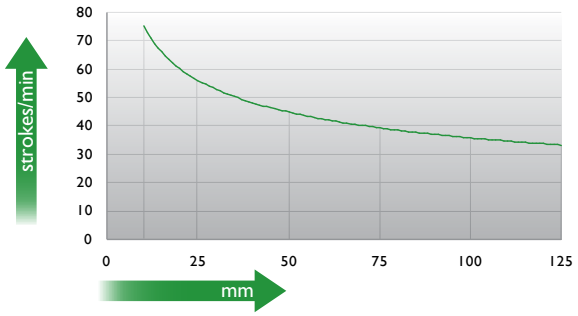
Low Profile - High Force



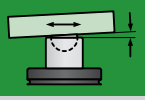
Force / Pressure



Max. strokes / minutes



Ordering example: 4 x KP-350-125

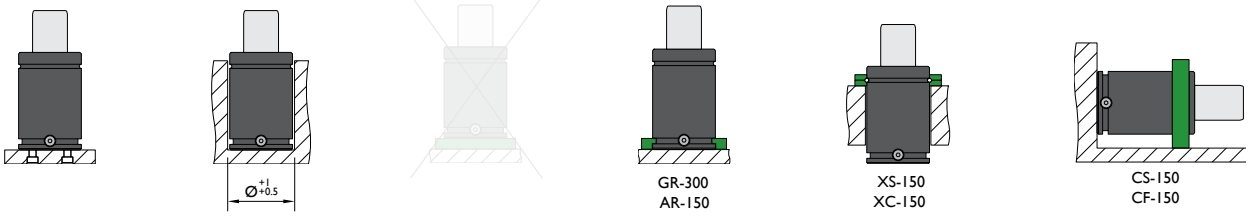
Order No.	S (1) mm	L mm	A mm	F_0 (2) daN (20°C,180 bar)	F daN		kg
KP-350-10	10	50	40		520	No	0.16
KP-350-13	13	56	43		530	No	0.17
KP-350-16	16	62	46		530	No	0.18
KP-350-19	19	68	49		530	No	0.19
KP-350-25	25	80	55		530	No	0.21
KP-350-32	32	94	62		530	No	0.23
KP-350-38	38	106	68	360	530	No	0.25
KP-350-50	50	130	80		540	No	0.29
KP-350-63	63	156	93		540	No	0.33
KP-350-75	75	180	105		540	No	0.37
KP-350-80	80	190	110		540	No	0.38
KP-350-100	100	230	130		540	No	0.45
KP-350-125	125	280	155		540	No	0.53

(1) other strokes under request

(2) alternative forces upon request

Pressure medium	N_2	Working temperature	0-80°C	Min. security stroke	10%
Max. Charging pressure	180 bar	Temperature related force increase	+0.34%/°C	Repair Kit	KIT KP-350
Min. Charging pressure	25 bar	Max. working speed	1.6 m/s	Linkable	M6

Mounting possibilities

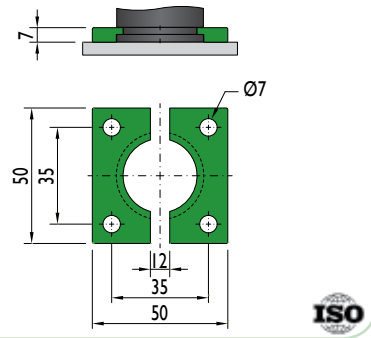


Flange must not support spring's force

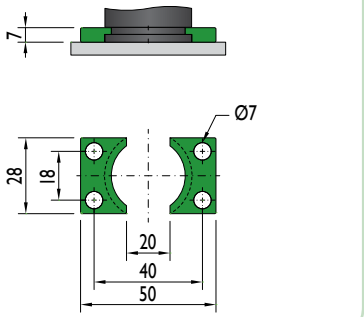
NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

Flanges

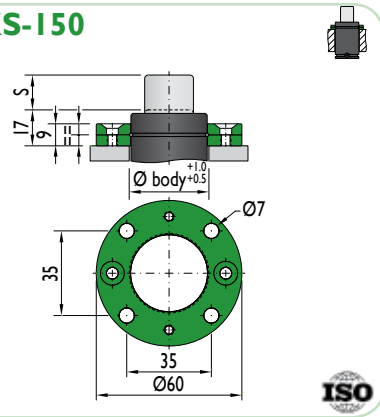
GR-300



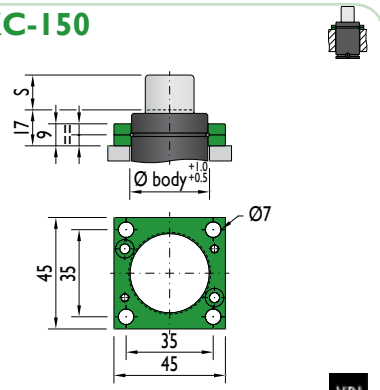
AR-150



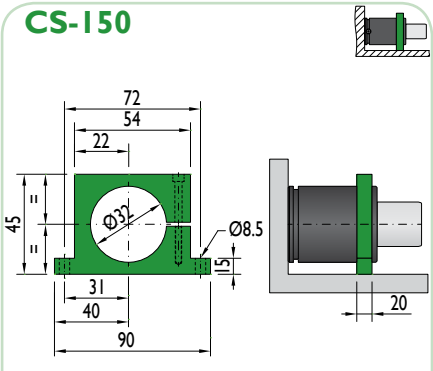
XS-150



XC-150

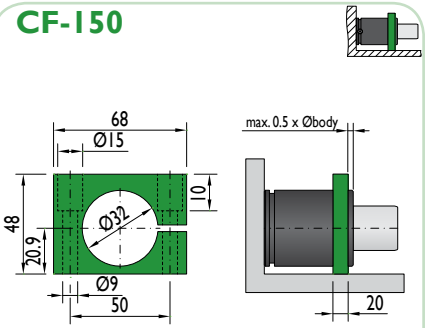


CS-150



Flange must not support spring's force

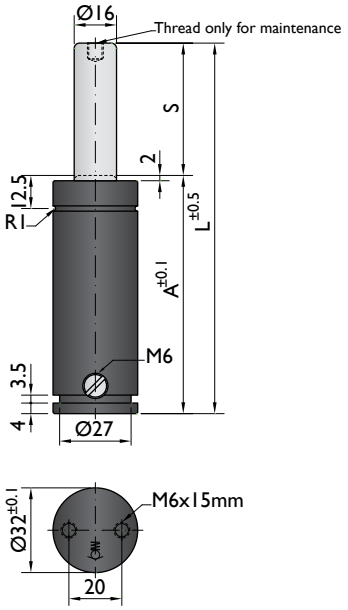
CF-150



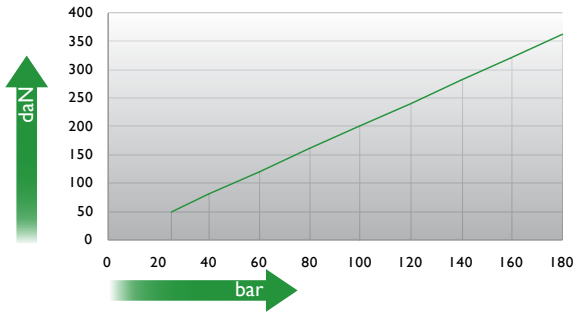
Flange must not support spring's force

NR-350

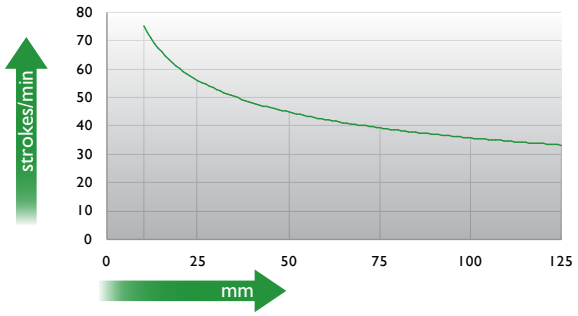
Low Profile - High Force



Force / Pressure



Max. strokes / minutes



Ordering example: 4 x NR-350-125

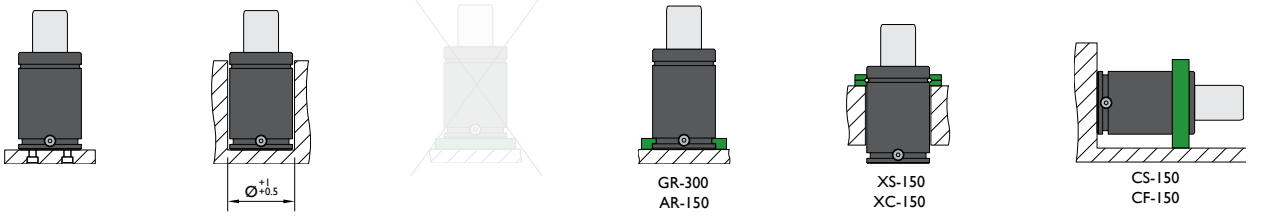
Order No.	S (1) mm	L mm	A mm	F_0 (2) daN (20°C,180 bar)	F daN		kg
NR-350-10	10	60	50		530	No	0.23
NR-350-13	13	66	53		540	No	0.23
NR-350-16	16	72	56		540	No	0.24
NR-350-19	19	78	59		540	No	0.25
NR-350-25	25	90	65		540	No	0.27
NR-350-32	32	104	72		540	No	0.29
NR-350-38	38	116	78	360	540	No	0.31
NR-350-50	50	140	90		550	No	0.35
NR-350-63	63	166	103		550	No	0.39
NR-350-75	75	190	115		550	No	0.43
NR-350-80	80	200	120		550	No	0.44
NR-350-100	100	240	140		550	No	0.50
NR-350-125	125	290	165		550	No	0.58

(1) other strokes under request

(2) alternative forces upon request

Pressure medium	N_2	Working temperature	0-80°C	Min. security stroke	10%
Max. Charging pressure	180 bar	Temperature related force increase	+0.34%/°C	Repair Kit	KIT NR-350
Min. Charging pressure	25 bar	Max. working speed	1.6 m/s	Linkable	M6

Mounting possibilities

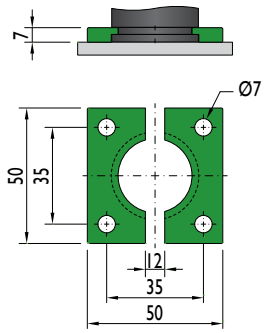


Flange must not support spring's force

NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

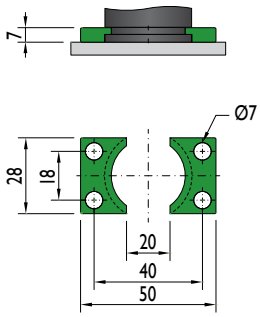
Flanges

GR-300

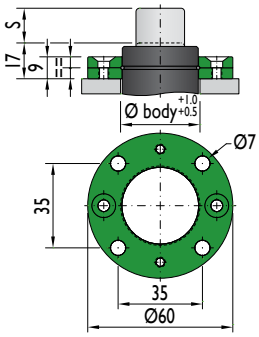


ISO

AR-150

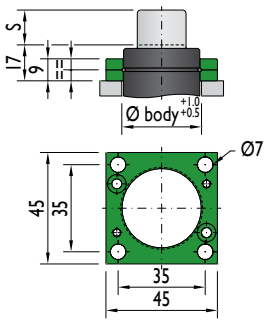


XS-150



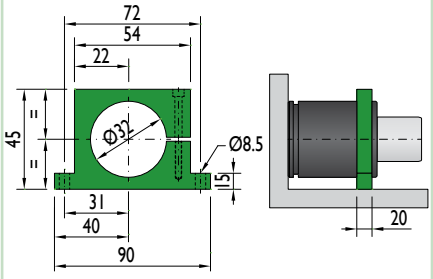
ISO

XC-150



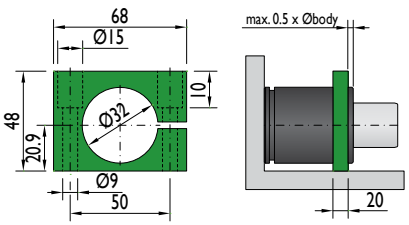
VDI

CS-150



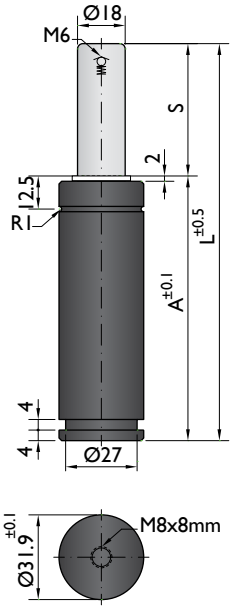
Flange must not support spring's force

CF-150

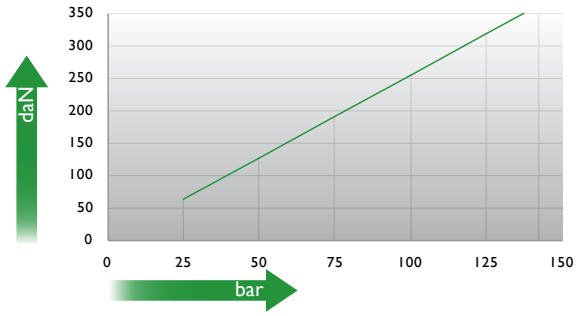


Flange must not support spring's force

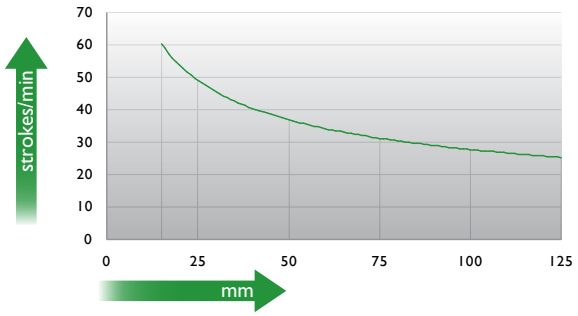
VDI



Force / Pressure



Max. strokes / minutes



Ordering example: 4 x M-350-125

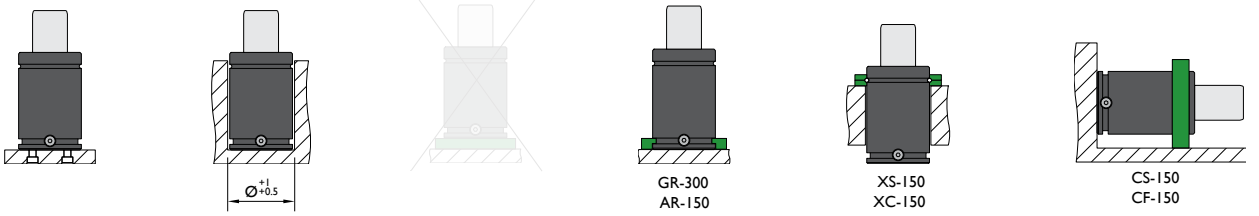
Order No.	S (1) mm	L mm	A mm	F_0 (2) daN (20°C,140 bar)	F daN		kg
M-350-15	15	80	65	350	520	No	0.31
M-350-25	25	100	75		540	No	0.34
M-350-38	38	126	88		550	No	0.38
M-350-50	50	150	100		560	No	0.42
M-350-63	63	176	113		570	No	0.47
M-350-80	80	210	130		570	No	0.53
M-350-100	100	250	150		580	No	0.62
M-350-125	125	300	175		580	No	0.71

(1) other strokes under request

(2) alternative forces upon request

Pressure medium	N_2	Working temperature	0-80°C	Min. security stroke	10%
Max. Charging pressure	140 bar	Temperature related force increase	+0.34%/°C	Repair Kit	KIT M-350
Min. Charging pressure	25 bar	Max. working speed	1.6 m/s	Linkable	No

Mounting possibilities

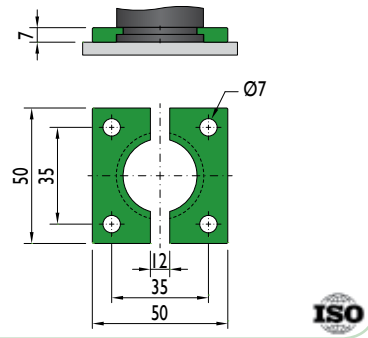


Flange must not support spring's force

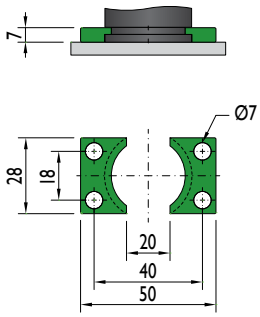
NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

Flanges

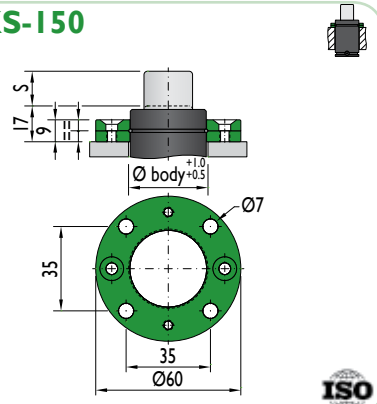
GR-300



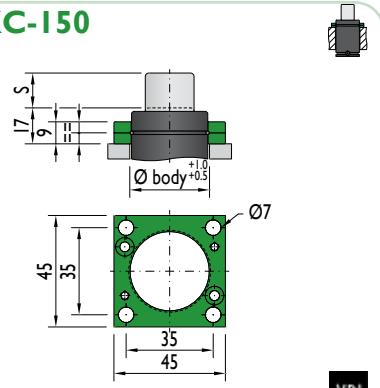
AR-150



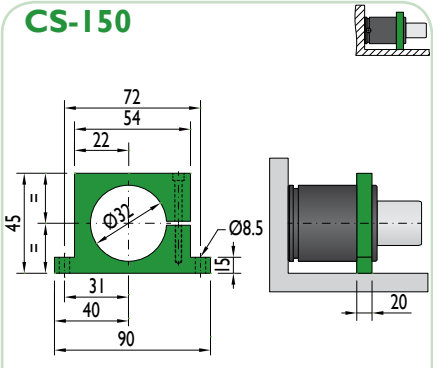
XS-150



XC-150

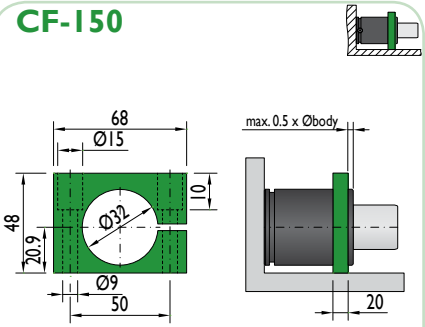


CS-150

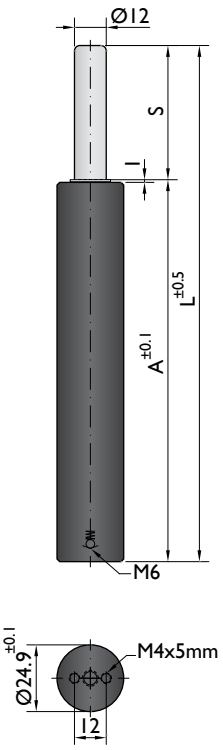


Flange must not support spring's force

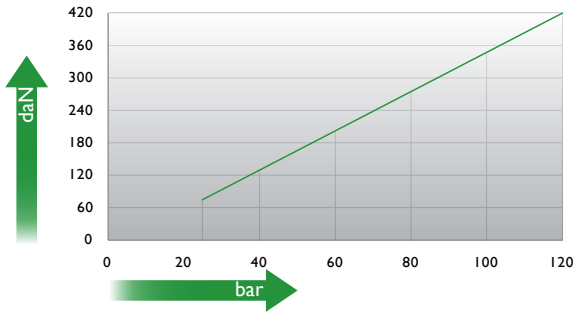
CF-150



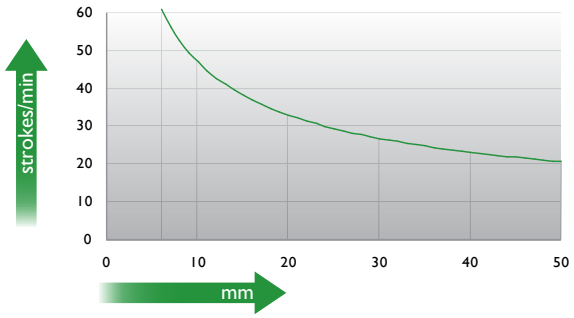
Flange must not support spring's force



Force / Pressure



Max. strokes / minutes



Ordering example: 4 x T-420-50

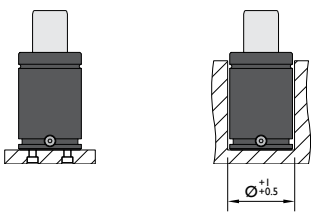
Order No.	S (1) mm	L mm	A mm	F_0 (2) daN (20°C,120 bar)	F daN		kg
T-420-6	6	56	50	420	660	No	0.15
T-420-10	10	70	60		670	No	0.17
T-420-16	16	91	75		780	No	0.19
T-420-25	25	120	95		780	No	0.23
T-420-32	32	140	108		790	No	0.26
T-420-40	40	165	125		790	No	0.29
T-420-50	50	195	145		790	No	0.32

(1) other strokes under request

(2) alternative forces upon request

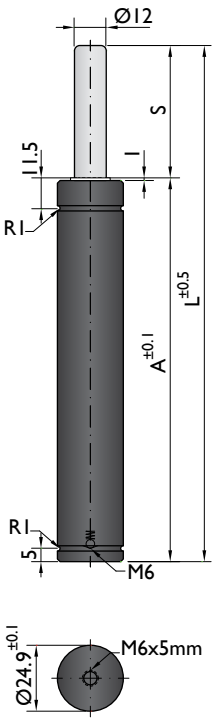
Pressure medium	N_2	Working temperature	0-80°C	Min. security stroke	10%
Max. Charging pressure	120 bar	Temperature related force increase	+0.34%/°C	Repair Kit	Non-repairable
Min. Charging pressure	25 bar	Max. working speed	0.5 m/s	Linkable	No

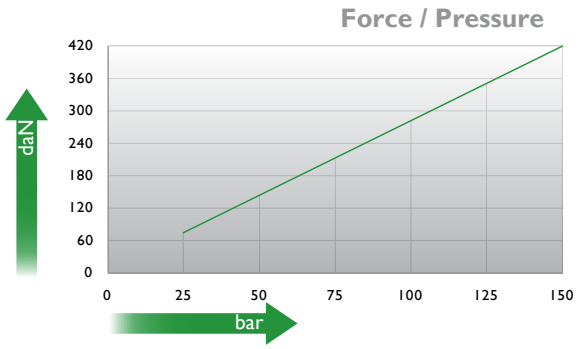
Mounting possibilities

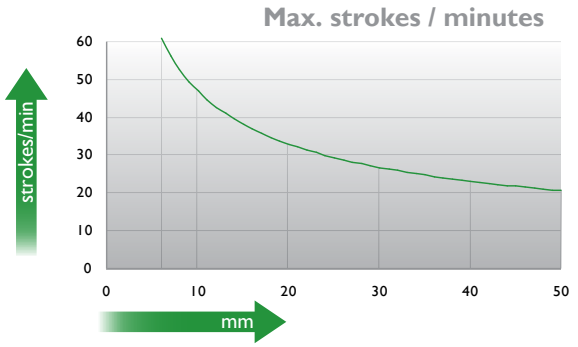


NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

Flanges







Ordering example: 4 x TS-420-50

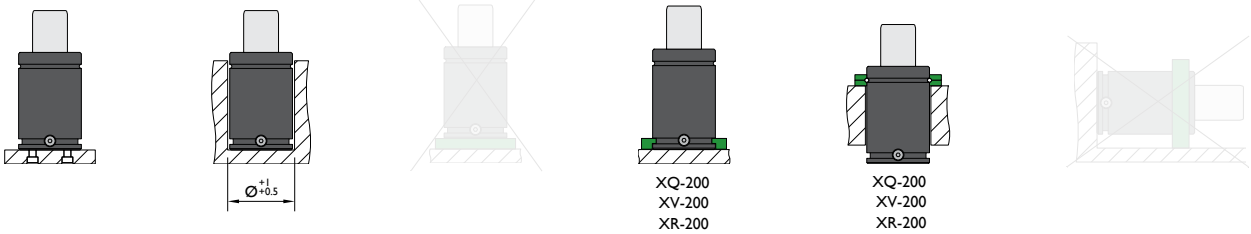
Order No.	S (1) mm	L mm	A mm	F_0 (2) daN (20°C,150 bar)	F daN		kg
TS-420-6	6	56	50	420	660	No	0.15
TS-420-10	10	70	60		670	No	0.17
TS-420-16	16	91	75		780	No	0.19
TS-420-25	25	120	95		780	No	0.23
TS-420-32	32	140	108		790	No	0.26
TS-420-40	40	165	125		790	No	0.29
TS-420-50	50	195	145		790	No	0.32

(1) other strokes under request

(2) alternative forces upon request

Pressure medium	N_2	Working temperature	0-80°C	Min. security stroke	10%
Max. Charging pressure	120 bar	Temperature related force increase	+0.34%/°C	Repair Kit	Non-repairable
Min. Charging pressure	25 bar	Max. working speed	0.5 m/s	Linkable	No

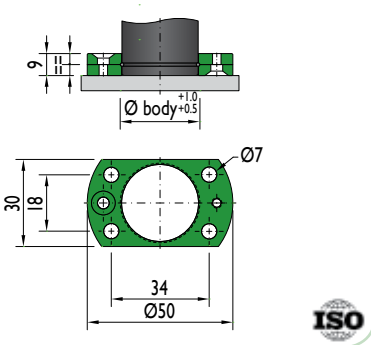
Mounting possibilities



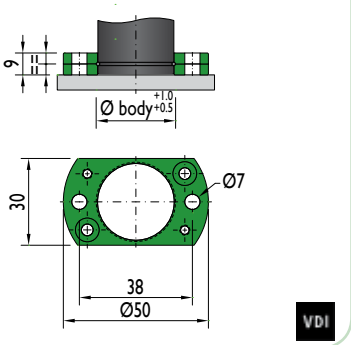
NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

Flanges

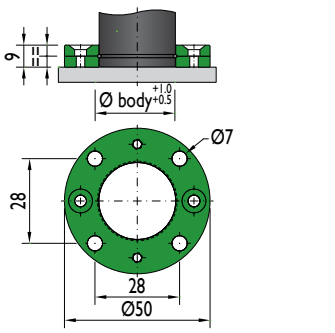
XQ-200



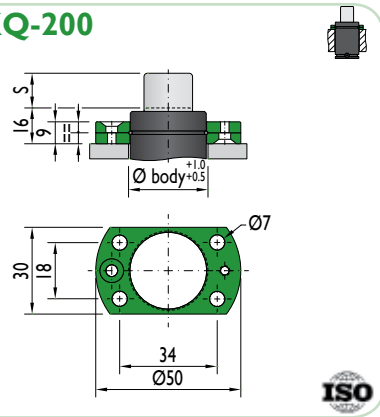
XV-200



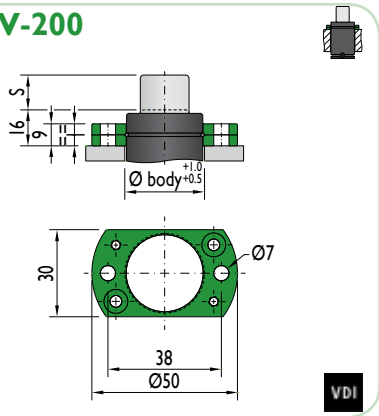
XR-200



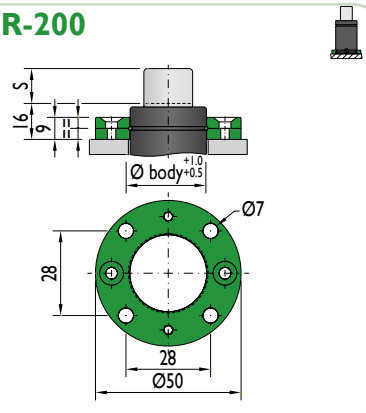
XQ-200



XV-200

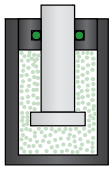


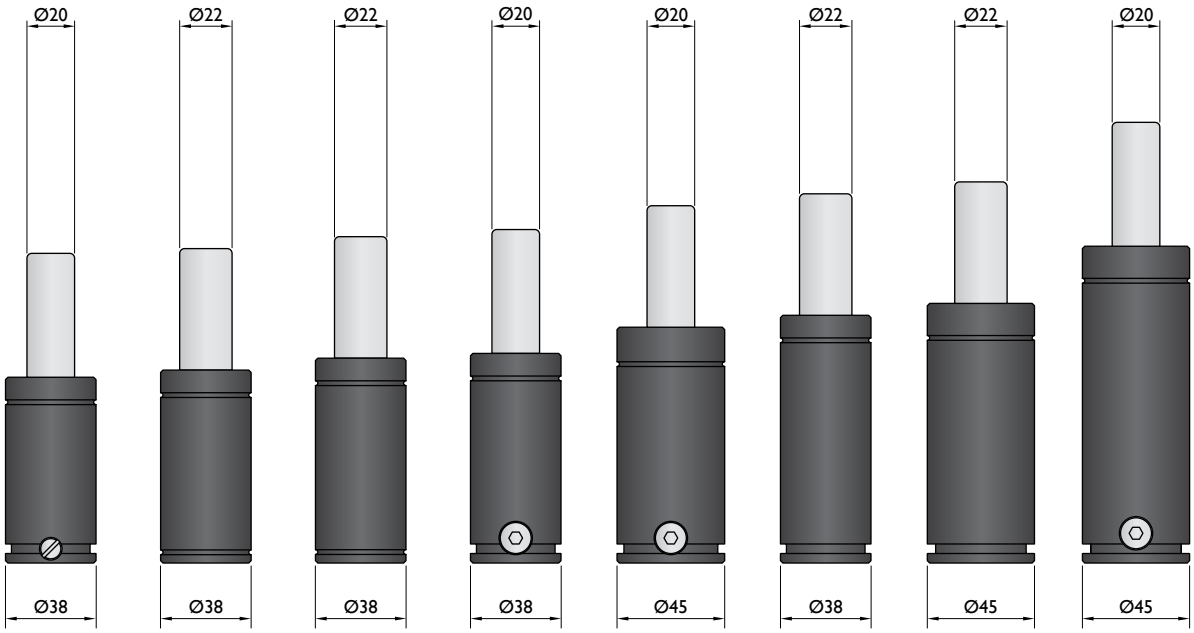
XR-200



Force 500 - 600 daN

Piston Rod Sealed gas springs





Model	KP-500	KC-550	K-570	NR-500	KH-500	M-500	G-500	CN-500
Initial F (daN)	470	550	570	470	470	500	500	470
L max (mm)	2xStroke+30	2xStroke+32	2xStroke+37	2xStroke+40	2xStroke+50	2xStroke+55	2xStroke+60	2xStroke+85
Stroke (mm)	10-125	12-125	7-125	10-125	12.7-125	12-125	12-125	12.7-160

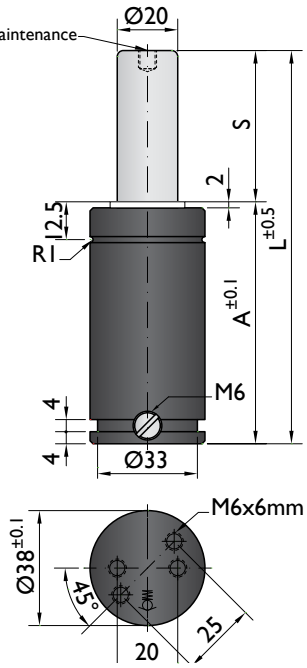
* other strokes under request

Standards

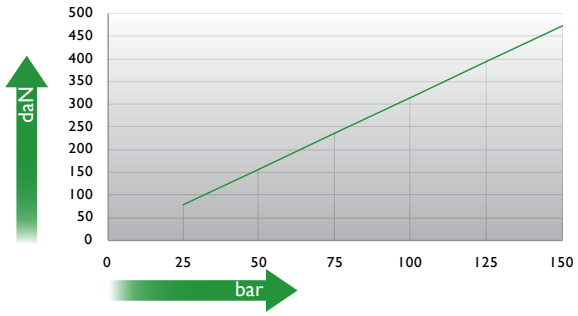
PED 2014/68/EU	**PED** 2014/68/EU	**PED** 2014/68/EU	**PED** 2014/68/EU	**PED** 2014/68/EU	**PED** 2014/68/EU	**PED** 2014/68/EU	**PED** 2014/68/EU
ISO 11901	ISO 11901	ISO 11901	ISO 11901	ISO 11901	ISO 11901	ISO 11901	**ISO** 11901
VDI 3003	VDI 3003	VDI 3003	VDI 3003	VDI 3003	VDI 3003	VDI 3003	**VDI** 3003
CNOMO EM24.54.700	CNOMO EM24.54.700	CNOMO EM24.54.700	CNOMO EM24.54.700	CNOMO EM24.54.700	CNOMO EM24.54.700	CNOMO EM24.54.700	**CNOMO** EM24.54.700

NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

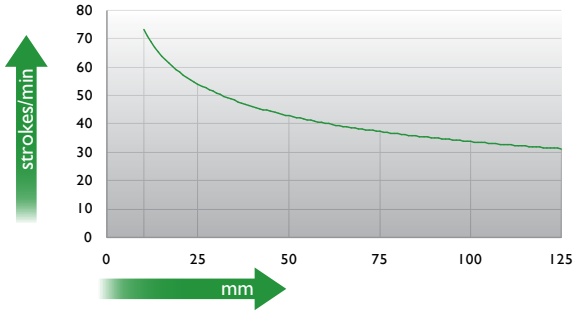
PSA
E24.54.815.G



Force / Pressure



Max. strokes / minutes



Ordering example: 4 x KP-500-125

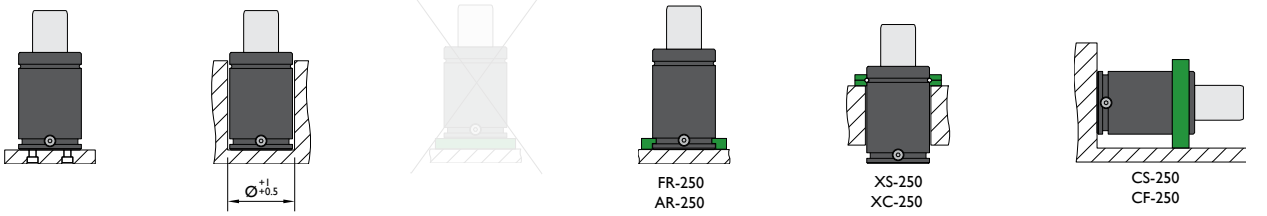
Order No.	S (1) mm	L mm	A mm	F_0 (2) daN (20°C,150 bar)	F daN		kg
KP-500-10	10	50	40		680	No	0.29
KP-500-13	13	56	43		680	No	0.31
KP-500-16	16	62	46		690	No	0.34
KP-500-19	19	68	49		690	No	0.37
KP-500-25	25	80	55		690	No	0.42
KP-500-32	32	94	62		700	No	0.50
KP-500-38	38	106	68	470	700	No	0.55
KP-500-50	50	130	80		700	No	0.66
KP-500-63	63	156	93		710	No	0.80
KP-500-75	75	180	105		710	No	0.91
KP-500-80	80	190	110		710	No	0.98
KP-500-100	100	230	130		710	No	1.15
KP-500-125	125	280	155		710	No	1.38

(1) other strokes under request

(2) alternative forces upon request

Pressure medium	N_2	Working temperature	0-80°C	Min. security stroke	10%
Max. Charging pressure	150 bar	Temperature related force increase	+0.34%/°C	Repair Kit	KIT KP-500
Min. Charging pressure	25 bar	Max. working speed	1.6 m/s	Linkable	M6

Mounting possibilities

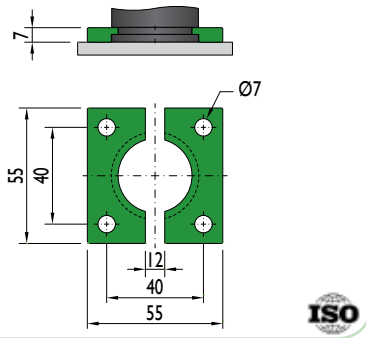


Flange must not support spring's force

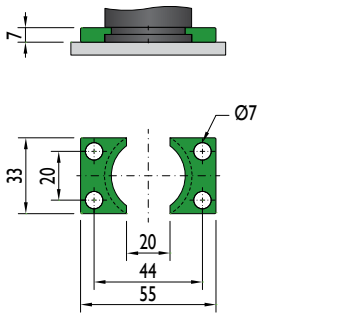
NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

Flanges

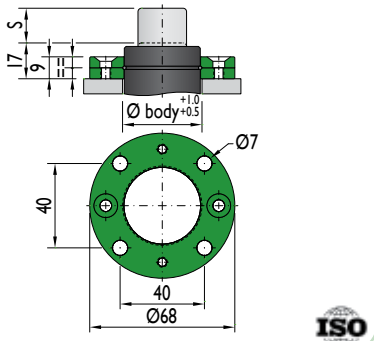
FR-250



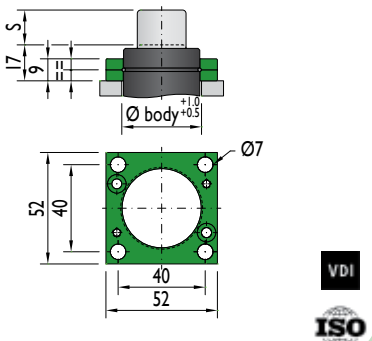
AR-250



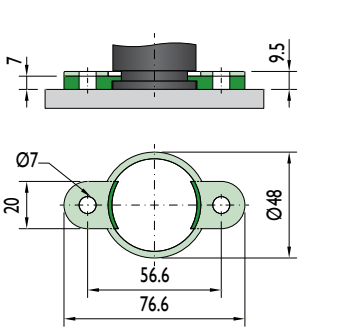
XS-250



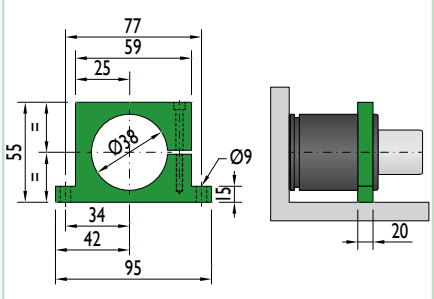
XC-250



PR-250

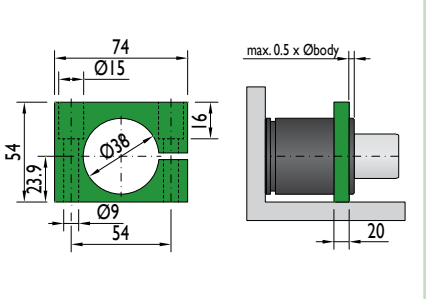


CS-250



Flange must not support spring's force

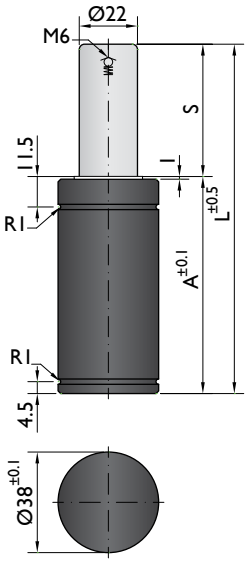
CF-250



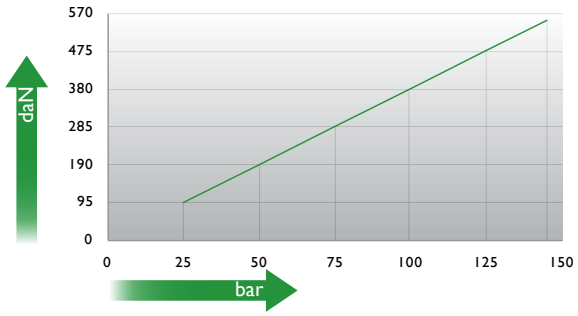
Flange must not support spring's force

KC-550

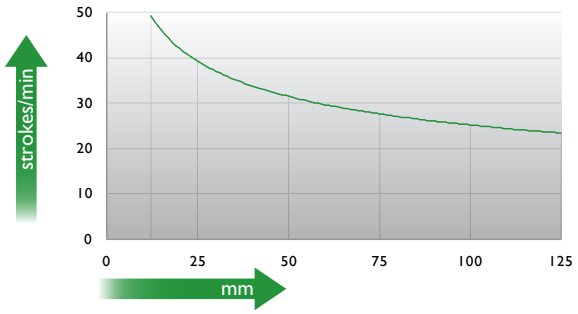
Low Profile - High Force



Force / Pressure



Max. strokes / minutes



Ordering example: 4 x KC-550-125

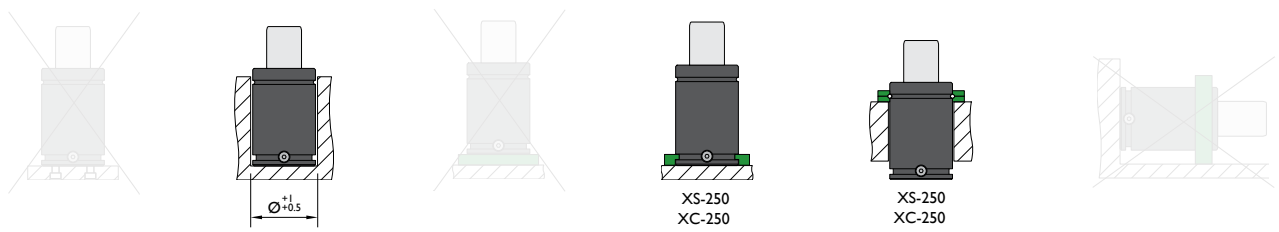
Order No.	S (1) mm	L mm	A mm	F_0 (2) daN (20°C,145 bar)	F daN		kg
KC-550-12	12	56	44	550	880	No	0.27
KC-550-25	25	82	57		890	No	0.31
KC-550-38	38	108	70		890	No	0.36
KC-550-50	50	132	82		890	No	0.42
KC-550-63	63	158	95		890	No	0.45
KC-550-80	80	192	112		890	No	0.51
KC-550-100	100	232	132		890	No	0.58
KC-550-125	125	282	157		890	No	0.63

(1) other strokes under request

(2) alternative forces upon request

Pressure medium	N_2	Working temperature	0-80°C	Min. security stroke	10%
Max. Charging pressure	145 bar	Temperature related force increase	+0.34%/°C	Repair Kit	KIT KC-550
Min. Charging pressure	25 bar	Max. working speed	1.6 m/s	Linkable	No

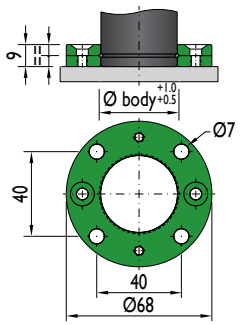
Mounting possibilities



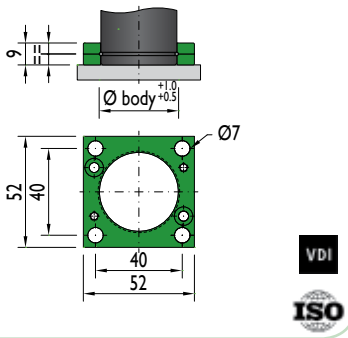
NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

Flanges

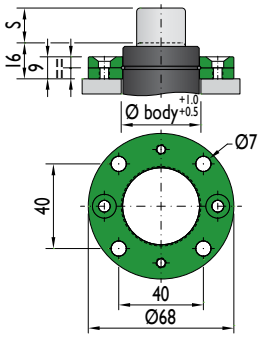
XS-250



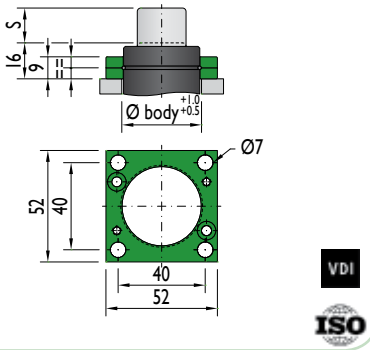
XC-250



XS-250

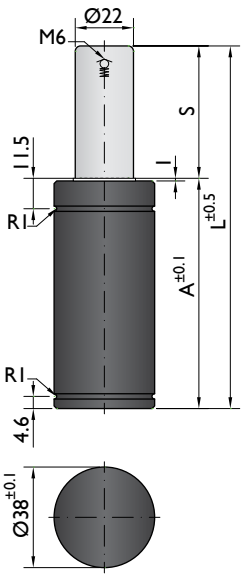


XC-250

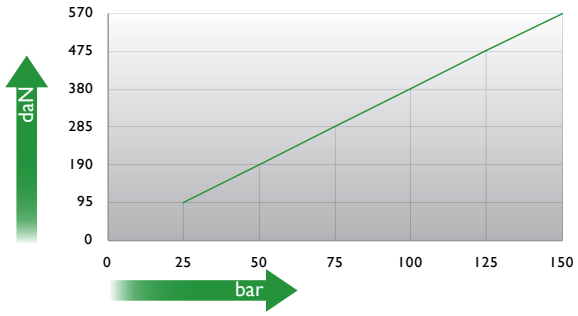


K-570

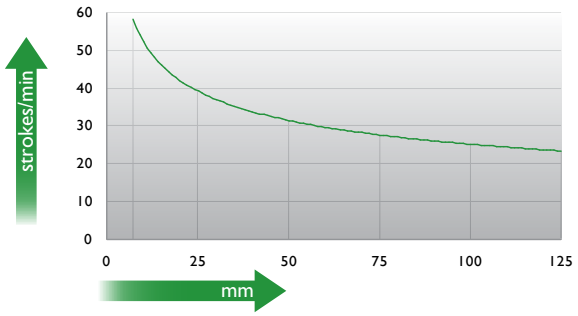
Low Profile - High Force



Force / Pressure



Max. strokes / minutes



Ordering example: 4 x K-570-125

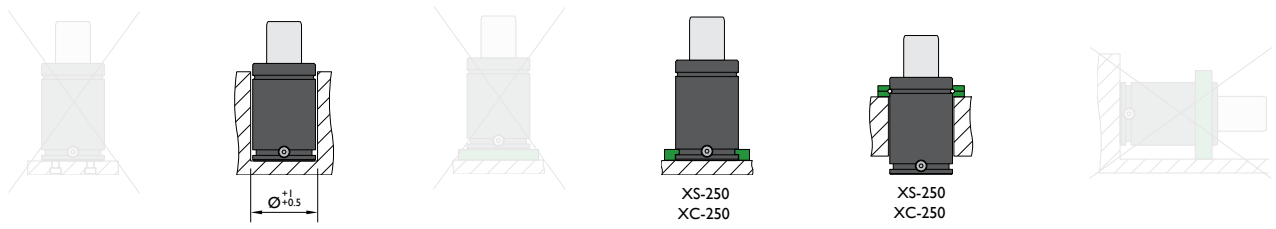
Order No.	S (1) mm	L mm	A mm	F_0 (2) daN (20°C,150 bar)	F daN		kg
K-570-7	7	51	44	570	830	No	0.26
K-570-12	12	61	49		860	No	0.31
K-570-16	16	69	53		870	No	0.33
K-570-25	25	87	62		890	No	0.36
K-570-38	38	113	75		900	No	0.41
K-570-50	50	137	87		910	No	0.47
K-570-63	63	163	100		910	No	0.50
K-570-80	80	197	117		910	No	0.60
K-570-100	100	237	137		920	No	0.69
K-570-125	125	287	162		920	No	0.75

(1) other strokes under request

(2) alternative forces upon request

Pressure medium	N_2	Working temperature	0-80°C	Min. security stroke	10%
Max. Charging pressure	150 bar	Temperature related force increase	+0.34%/°C	Repair Kit	KIT K-570
Min. Charging pressure	25 bar	Max. working speed	1.6 m/s	Linkable	No

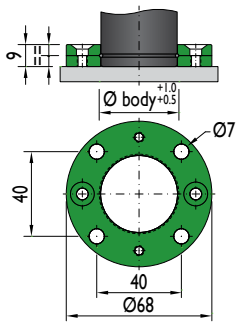
Mounting possibilities



NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

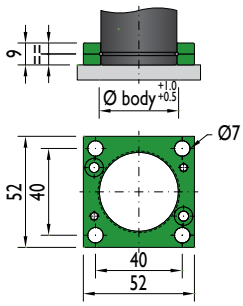
Flanges

XS-250



ISO

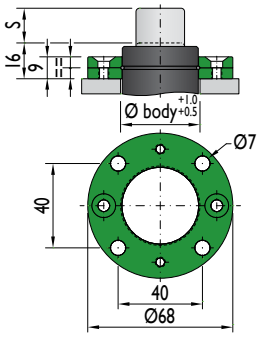
XC-250



VDI

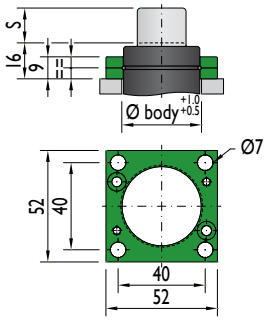
ISO

XS-250



ISO

XC-250

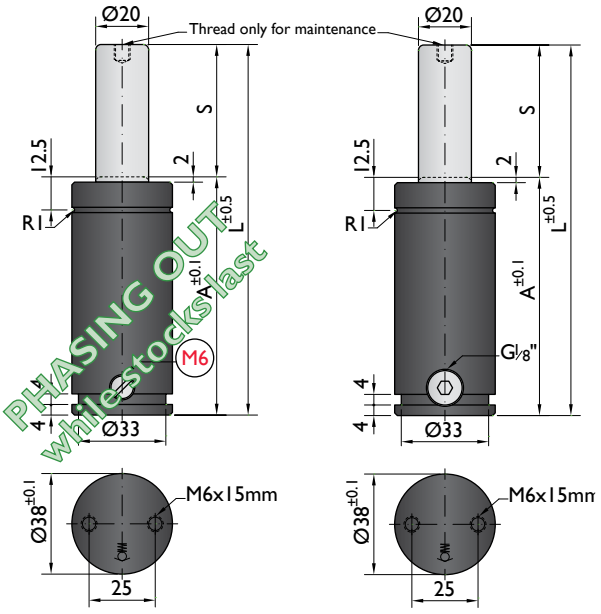


VDI

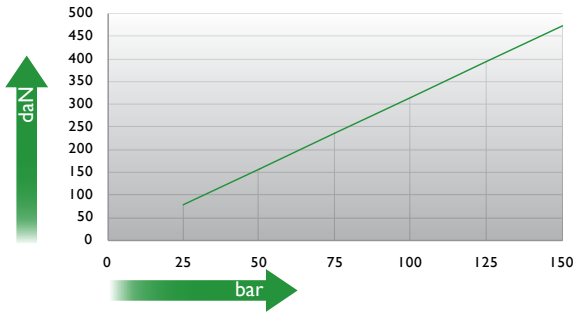
ISO

*The new cylinder will be supplied when the stock runs out.

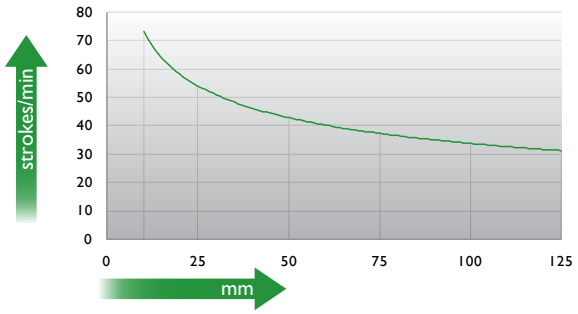
NEW MODEL*



Force / Pressure



Max. strokes / minutes



Ordering example: 4 x NR-500-125

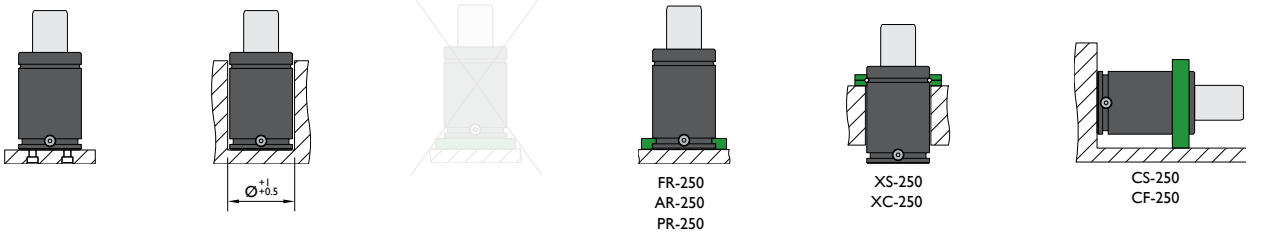
Order No.	S (1) mm	L mm	A mm	F_0 (2) daN (20°C,150 bar)	F daN		kg
NR-500-10	10	60	50		690	No	0.34
NR-500-13	13	66	53		690	No	0.35
NR-500-16	16	72	56		700	No	0.37
NR-500-19	19	78	59		700	No	0.38
NR-500-25	25	90	65		700	No	0.40
NR-500-32	32	104	72		710	No	0.42
NR-500-38	38	116	78	470	710	No	0.45
NR-500-50	50	140	90		710	No	0.50
NR-500-63	63	166	103		720	No	0.54
NR-500-75	75	190	115		720	No	0.58
NR-500-80	80	200	120		720	No	0.60
NR-500-100	100	240	140		720	No	0.69
NR-500-125	125	290	165		720	No	0.78

(1) other strokes under request

(2) alternative forces upon request

Pressure medium	N_2	Working temperature	0-80°C	Min. security stroke	10%
Max. Charging pressure	150 bar	Temperature related force increase	+0.34%/°C	Repair Kit	KIT NR-500
Min. Charging pressure	25 bar	Max. working speed	1.6 m/s	Linkable	G1/8"

Mounting possibilities

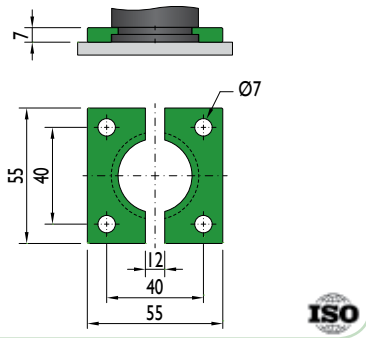


Flange must not support spring's force

NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

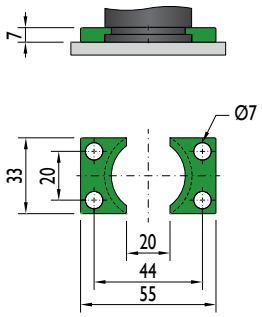
Flanges

FR-250

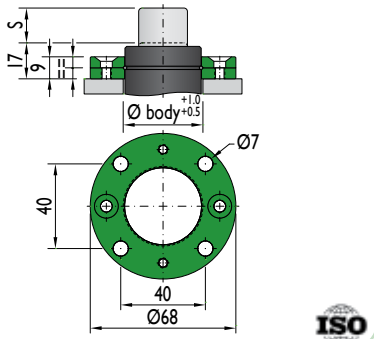


ISO

AR-250

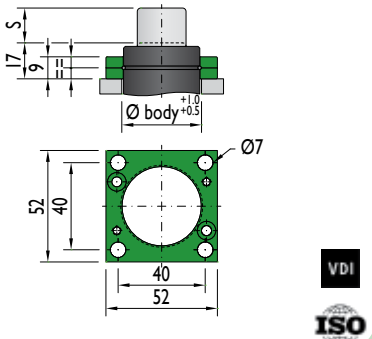


XS-250



ISO

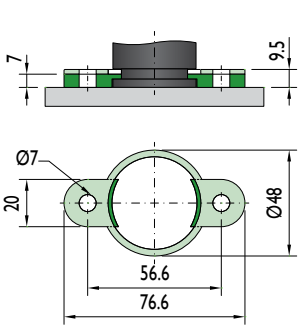
XC-250



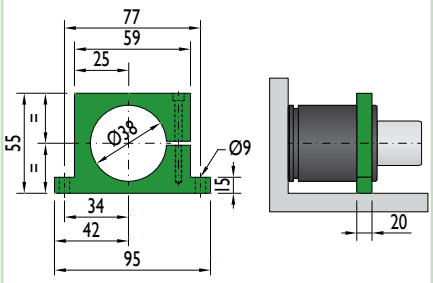
VDI

ISO

PR-250

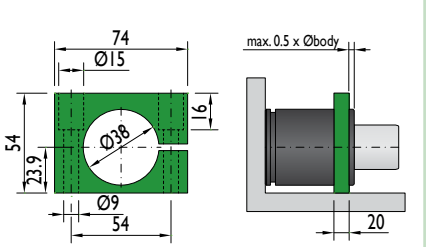


CS-250



Flange must not support spring's force

CF-250

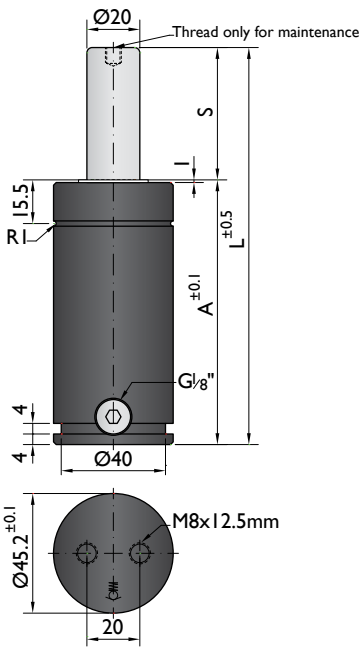


Flange must not support spring's force

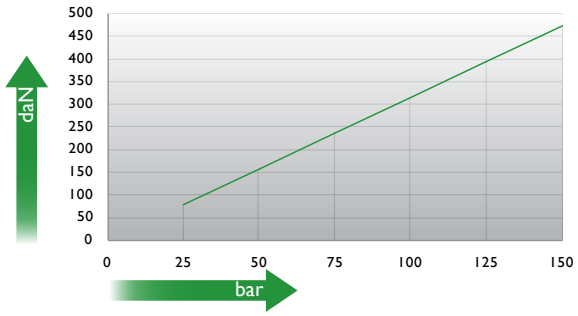
VDI

KH-500

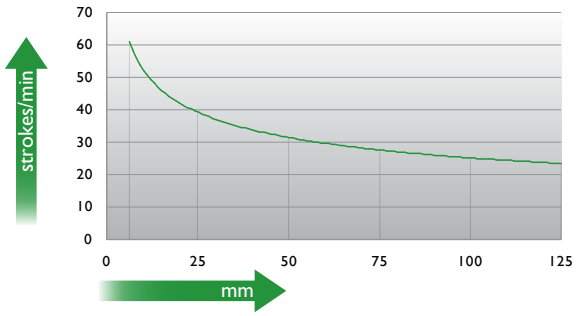
Low Profile - High Force



Force / Pressure



Max. strokes / minutes



Ordering example: 4 x KH-500-125

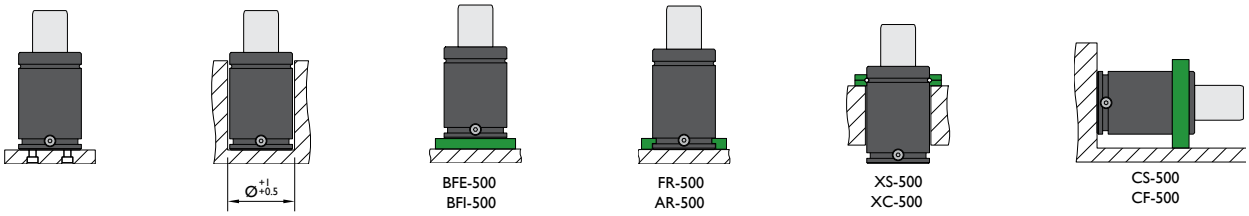
Order No.	S (1) mm	L mm	A mm	F_0 (2) daN (20°C,150 bar)	F daN		kg
KH-500-13	12.7	75.4	62.7		600	No	0.55
KH-500-19	19	88	69		610	No	0.59
KH-500-25	25	100	75		620	No	0.63
KH-500-38	38.1	126.2	88.1		620	No	0.71
KH-500-50	50	150	100	470	630	No	0.80
KH-500-63	63.5	177	113.5		640	No	0.87
KH-500-80	80	210	130		660	No	0.97
KH-500-100	100	250	150		660	No	1.11
KH-500-125	125	300	175		660	No	1.25

(1) other strokes under request

(2) alternative forces upon request

Pressure medium	N_2	Working temperature	0-80°C	Min. security stroke	10%
Max. Charging pressure	150 bar	Temperature related force increase	+0.34%/°C	Repair Kit	KIT KH-500
Min. Charging pressure	25 bar	Max. working speed	1.6 m/s	Linkable	G1/8"

Mounting possibilities

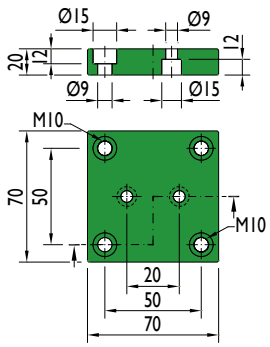


Flange must not support spring's force

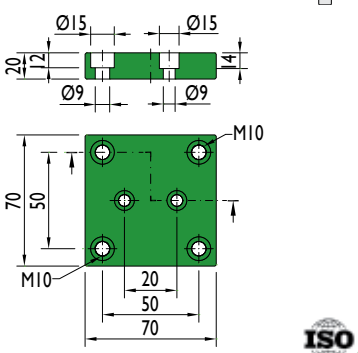
NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

Flanges

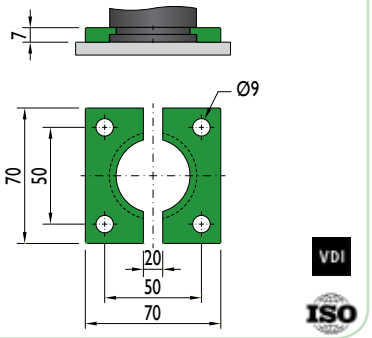
BFE-500



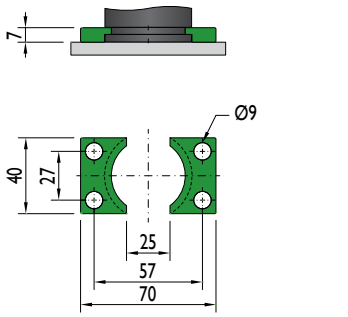
BFI- 500



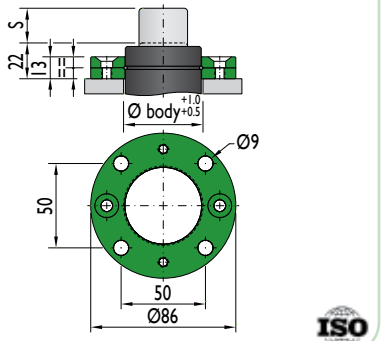
FR-500



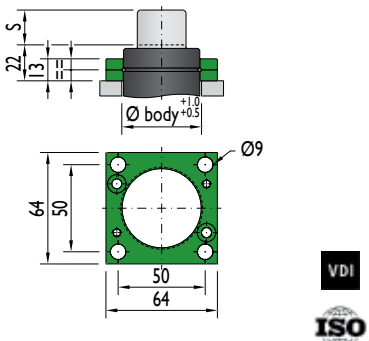
AR-500



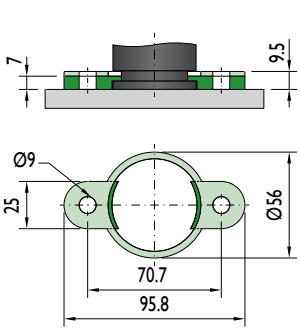
XS-500



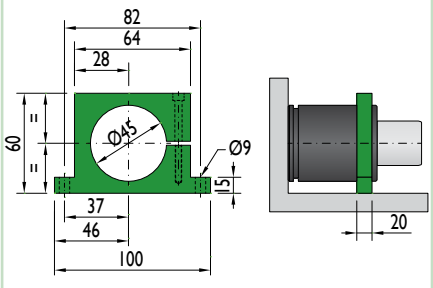
XC-500



PR-500

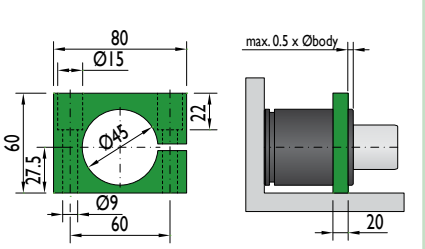


CS-500

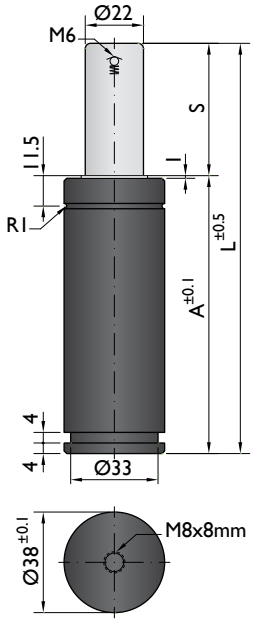


Flange must not support spring's force

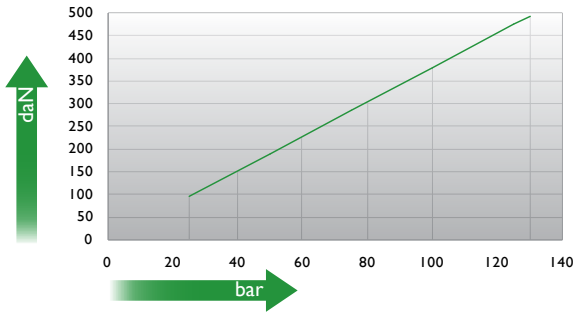
CF-500



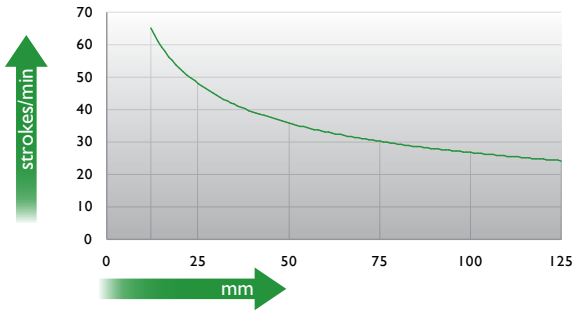
Flange must not support spring's force



Force / Pressure



Max. strokes / minutes



Ordering example: 4 x M-500-125

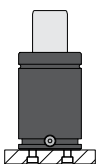
Order No.	S (1) mm	L mm	A mm	F_0 (2) daN (20°C,130 bar)	F daN		kg
M-500-12	12	79	67		650	No	0.43
M-500-15	15	85	70		670	No	0.45
M-500-25	25	105	80		700	No	0.48
M-500-38	38	131	93		730	No	0.55
M-500-50	50	155	105	500	740	No	0.58
M-500-63	63	186	123		740	No	0.66
M-500-80	80	220	140		740	No	0.72
M-500-100	100	260	160		750	No	0.80
M-500-125	125	310	185		750	No	0.91

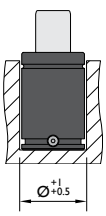
(1) other strokes under request

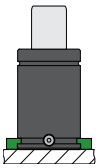
(2) alternative forces upon request

Pressure medium	N_2	Working temperature	0-80°C	Min. security stroke	10%
Max. Charging pressure	130 bar	Temperature related force increase	+0.34%/°C	Repair Kit	KIT M-500
Min. Charging pressure	25 bar	Max. working speed	1.6 m/s	Linkable	No

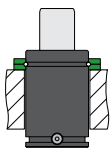
Mounting possibilities



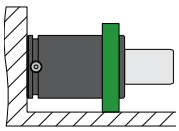




FR-250
AR-250
PR-250



XS-250
XC-250



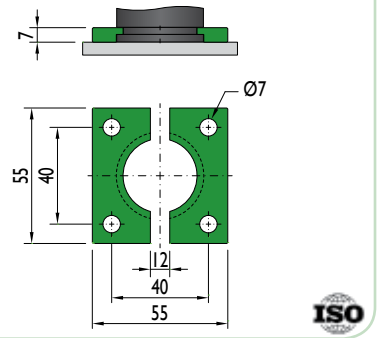
CS-250
CF-250

Flange must not support spring's force

NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

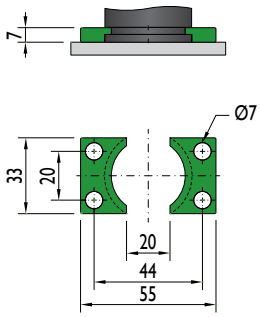
Flanges

FR-250

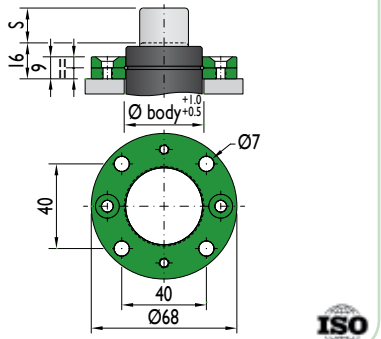


ISO

AR-250

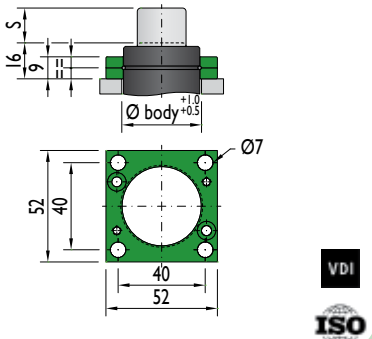


XS-250



ISO

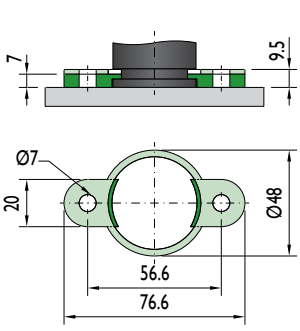
XC-250



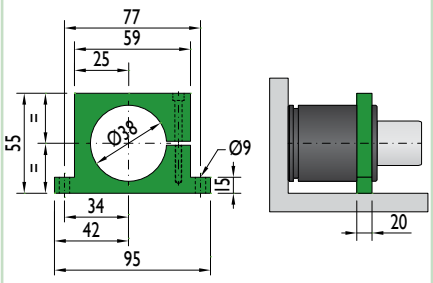
VDI

ISO

PR-250

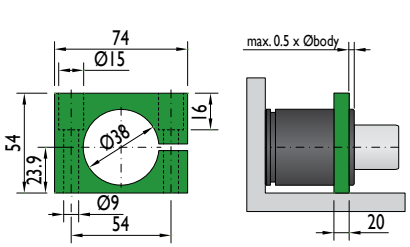


CS-250



Flange must not support spring's force

CF-250

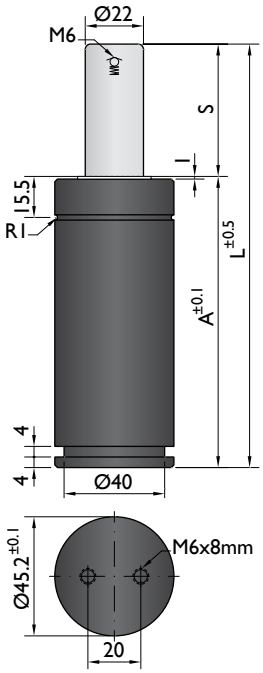


Flange must not support spring's force

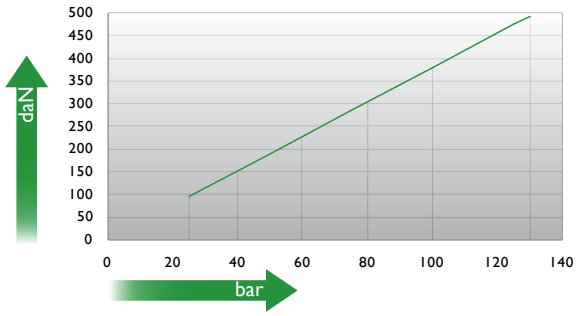
VDI

Special mounts available on

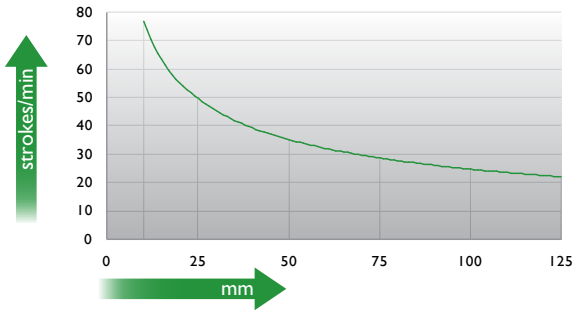
www.nitrogas.com



Force / Pressure



Max. strokes / minutes



Ordering example: 4 x G-500-125

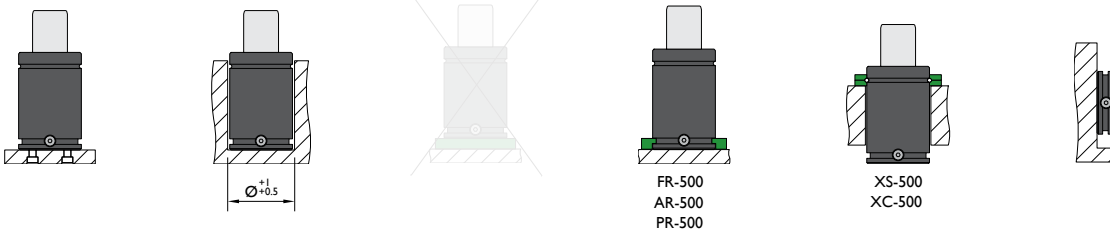
Order No.	S (1) mm	L mm	A mm	F_0 (2) daN (20°C,130 bar)	F daN		kg
G-500-12	12	84	72	500	610	No	0.66
G-500-25	25	110	85		670	No	0.77
G-500-38	38	136	98		700	No	0.88
G-500-50	50	160	110		720	No	0.91
G-500-63	63	186	123		730	No	1.00
G-500-80	80	220	140		740	No	1.12
G-500-100	100	260	160		750	No	1.45
G-500-125	125	310	185		800	No	1.85

(1) other strokes under request

(2) alternative forces upon request

Pressure medium	N_2	Working temperature	0-80°C	Min. security stroke	10%
Max. Charging pressure	130 bar	Temperature related force increase	+0.34%/°C	Repair Kit	KIT G-500
Min. Charging pressure	25 bar	Max. working speed	1.6 m/s	Linkable	No

Mounting possibilities

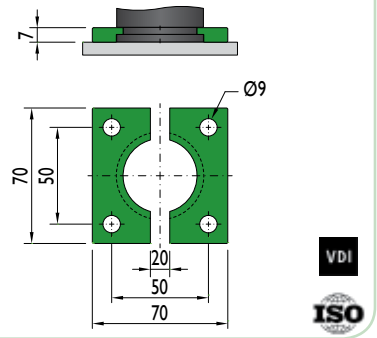


Flange must not support spring's force

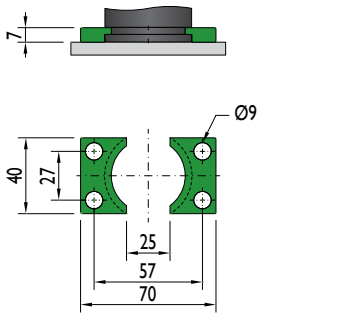
NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

Flanges

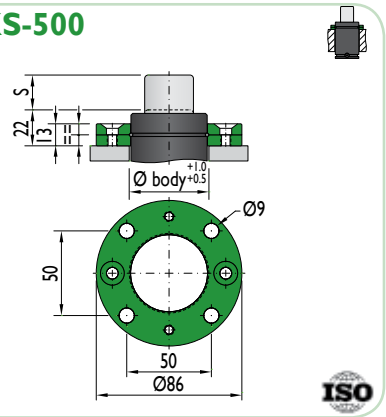
FR-500



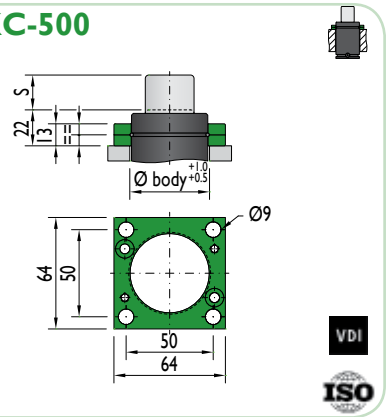
AR-500



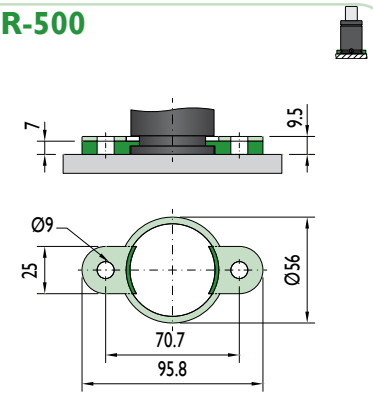
XS-500



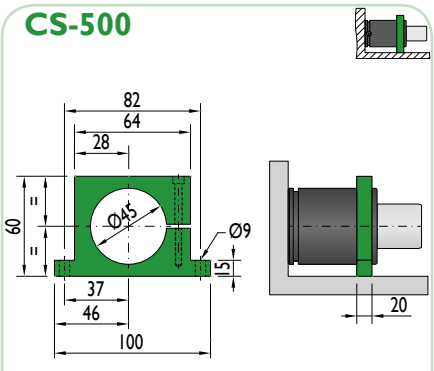
XC-500



PR-500

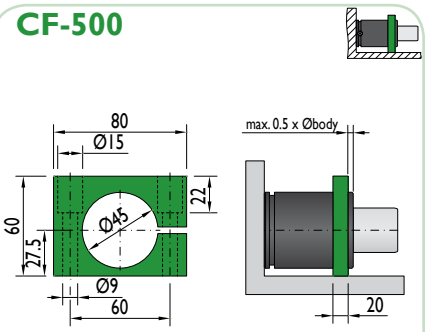


CS-500



Flange must not support spring's force

CF-500



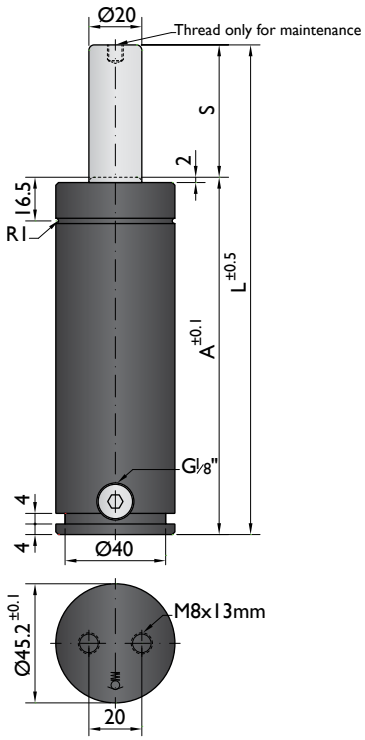
Flange must not support spring's force

Special mounts available on

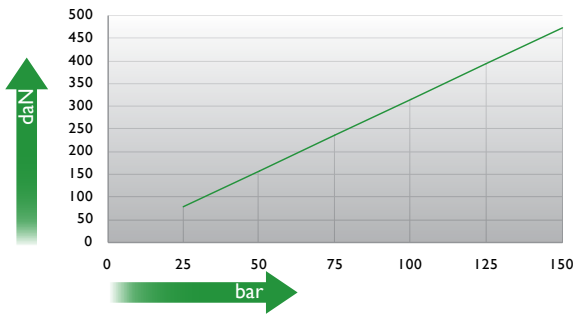
www.nitrogas.com

CNOMO
EM24.54.700

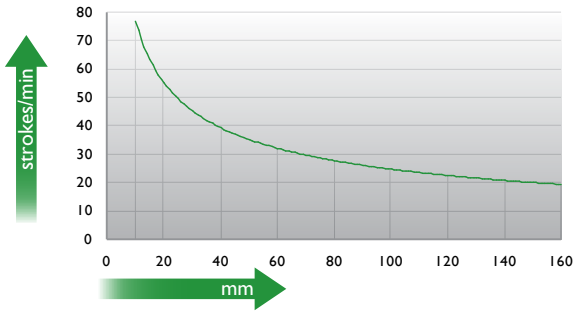
PSA
E24.54.815.G



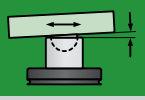
Force / Pressure



Max. strokes / minutes



Ordering example: 4 x CN-500-125

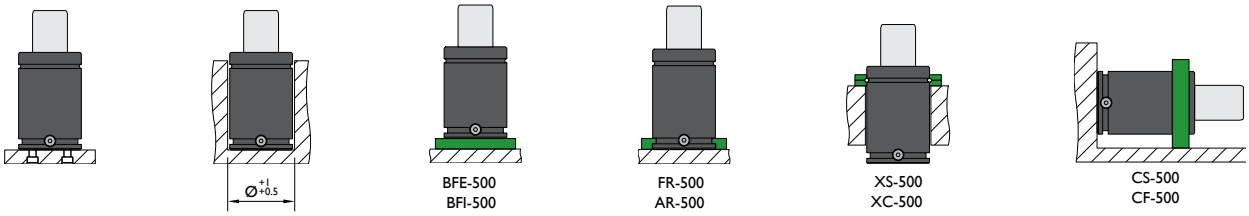
Order No.	S (1) mm	L mm	A mm	F_0 (2) daN (20°C,150 bar)	F daN		kg
CN-500-13	12.7	110.4	97.7		540	No	0.73
CN-500-25	25	135	110		580	No	0.87
CN-500-38	38.1	161.2	123.1		610	No	0.96
CN-500-50	50	185	135		620	No	1.06
CN-500-63	63.5	212	148.5	470	630	No	1.18
CN-500-80	80	245	165		650	No	1.34
CN-500-100	100	285	185		670	No	1.50
CN-500-125	125	335	210		680	No	1.72
CN-500-160	160	405	245		690	No	2.03

(1) other strokes under request

(2) alternative forces upon request

Pressure medium	N_2	Working temperature	0-80°C	Min. security stroke	10%
Max. Charging pressure	150 bar	Temperature related force increase	+0.34%/°C	Repair Kit	KIT CN-500
Min. Charging pressure	25 bar	Max. working speed	1.6 m/s	Linkable	G1/8"

Mounting possibilities

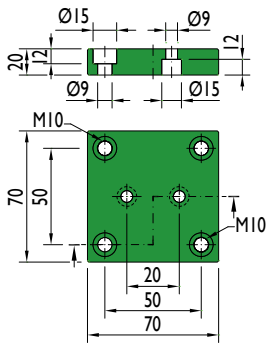


Flange must not support spring's force

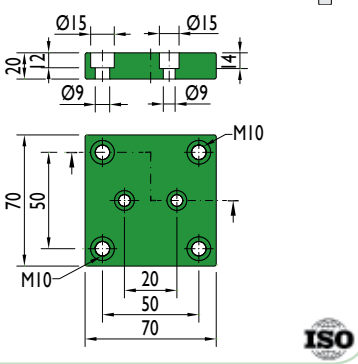
NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

Flanges

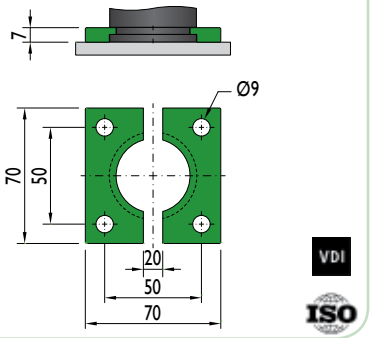
BFE-500



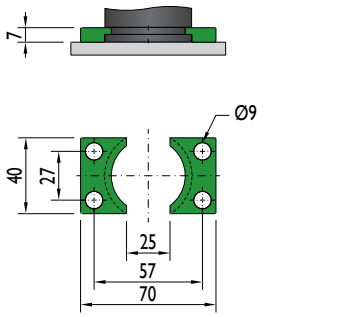
BFI- 500



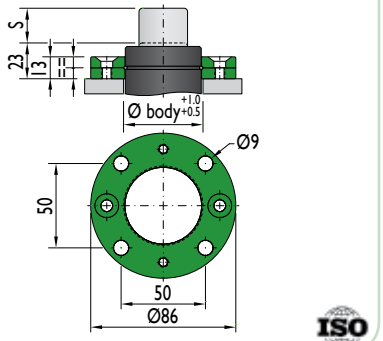
FR-500



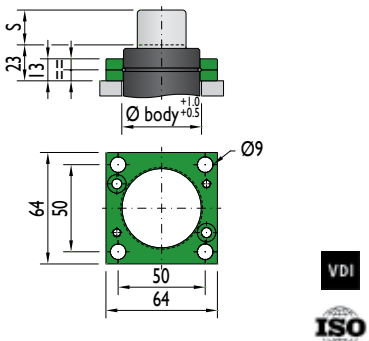
AR-500



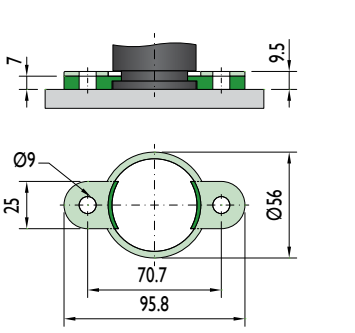
XS-500



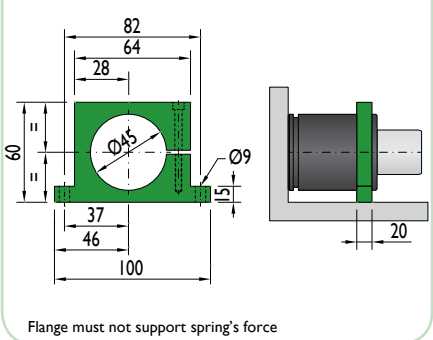
XC-500



PR-500

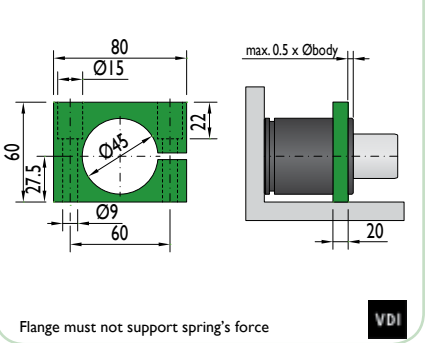


CS-500



Flange must not support spring's force

CF-500

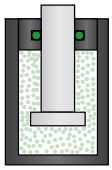


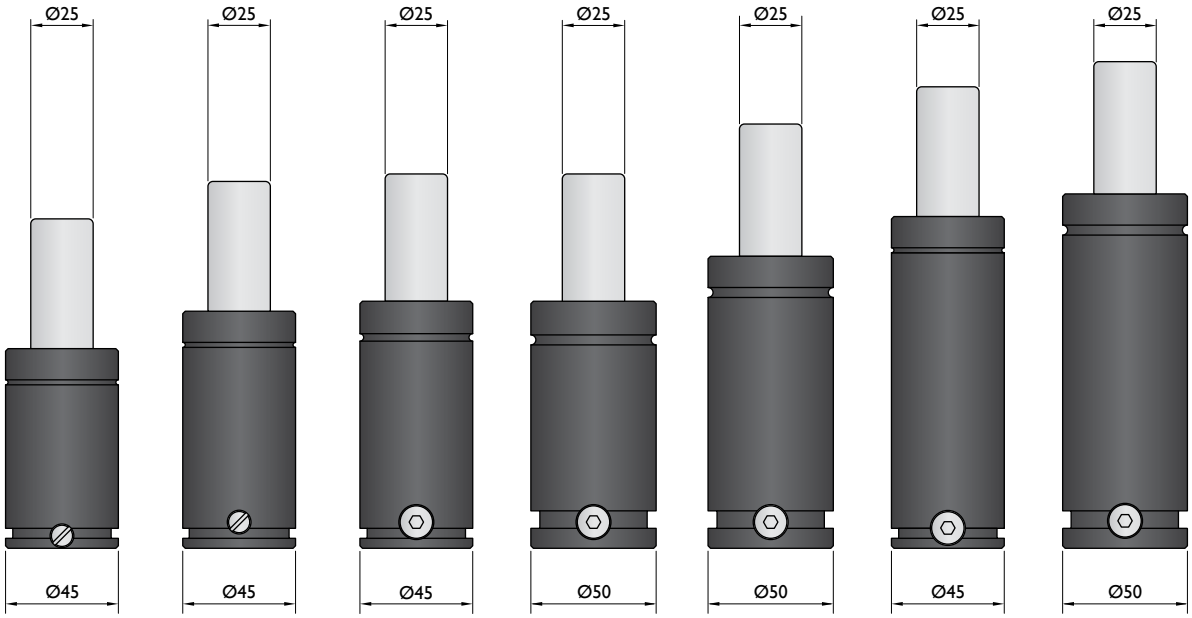
Flange must not support spring's force

VDI

Force 750 daN

Piston Rod Sealed gas springs





Model	KP-750	NR-750	K-750	KH-750	HG-750	HD-750	G-750
Initial F (daN)	740	740	740	740	740	740	740
L max (mm)	2xStroke+32	2xStroke+47	2xStroke+50	2xStroke+50	2xStroke+70	2xStroke+85	2xStroke+95
Stroke (mm)	10-125	10-125	12-125	12.7-125	12.5-200	13-200	12.7-300

* other strokes under request

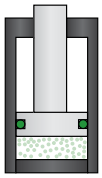
Standards

PED 2014/68/EU	**PED** 2014/68/EU	**PED** 2014/68/EU	**PED** 2014/68/EU	**PED** 2014/68/EU	**PED** 2014/68/EU	**PED** 2014/68/EU
ISO 11901	ISO 11901	ISO 11901	ISO 11901	ISO 11901	ISO 11901	**ISO** 11901
VDI 3003	VDI 3003	VDI 3003	VDI 3003	VDI 3003	VDI 3003	**VDI** 3003
CNOMO EM24.54.700	CNOMO EM24.54.700	CNOMO EM24.54.700	CNOMO EM24.54.700	CNOMO EM24.54.700	CNOMO EM24.54.700	**CNOMO** EM24.54.700

NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

Force 750 daN

Bore Sealed gas springs



	T-750	TS-750
Model		
Initial F (daN)	740	740
L max (mm)	63-195	63-195
Stroke (mm)	6-50	6-50

* other strokes under request

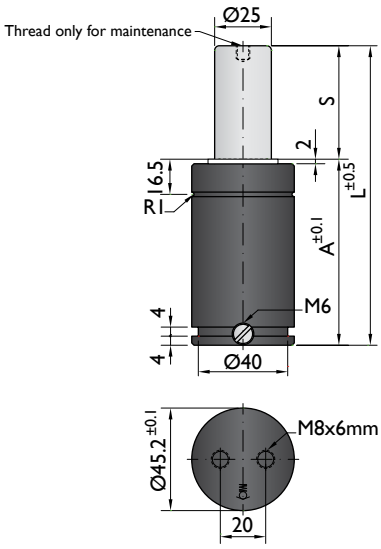
Standards

	PED 2014/68/EU	**PED** 2014/68/EU
	ISO 11901	ISO 11901
	VDI 3003	VDI 3003
	CNOMO EM24.54.700	CNOMO EM24.54.700

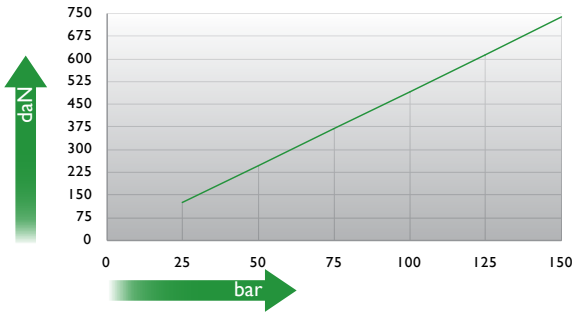
NITROGAS

KP-750

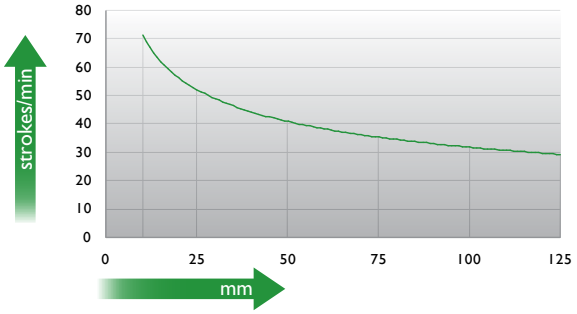
Low Profile - High Force



Force / Pressure



Max. strokes / minutes



Ordering example: 4 x KP-750-125

Order No.	S (1) mm	L mm	A mm	F_0 (2) daN (20°C, 150 bar)	F daN	(3)	kg
KP-750-10	10	52	42		1000	No	0.33
KP-750-13	13	58	45		1000	No	0.41
KP-750-16	16	64	48		1000	No	0.42
KP-750-19	19	70	51		1100	No	0.44
KP-750-25	25	82	57		1100	No	0.45
KP-750-32	32	96	64		1100	No	0.50
KP-750-38	38	108	70	740	1100	No	0.58
KP-750-50	50	132	82		1100	Yes	0.67
KP-750-63	63	158	95		1100	Yes	0.75
KP-750-75	75	182	107		1100	Yes	0.84
KP-750-80	80	192	112		1100	Yes	0.87
KP-750-100	100	232	132		1100	Yes	1.01
KP-750-125	125	282	157		1100	Yes	1.18

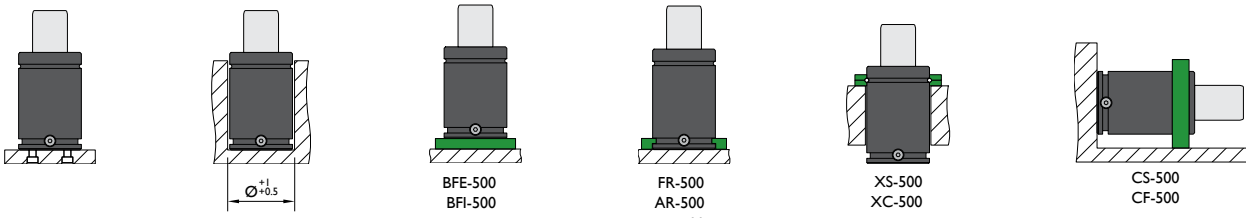
(1) other strokes under request

(2) alternative forces upon request

(3) ESK available for other strokes

Pressure medium	N_2	Working temperature	0-80°C	Min. security stroke	10%
Max. Charging pressure	150 bar	Temperature related force increase	+0.34%/°C	Repair Kit	KIT KP-750
Min. Charging pressure	25 bar	Max. working speed	1.6 m/s	Linkable	M6

Mounting possibilities

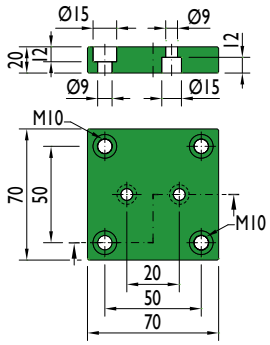


Flange must not support spring's force

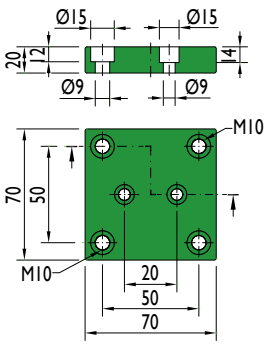
NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

Flanges

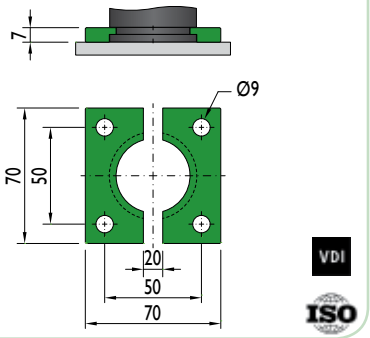
BFE-500



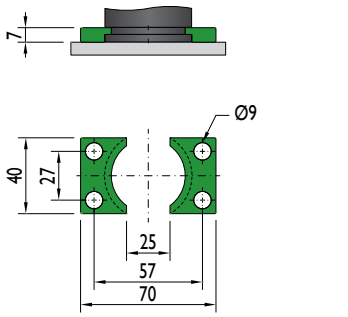
BFI-500



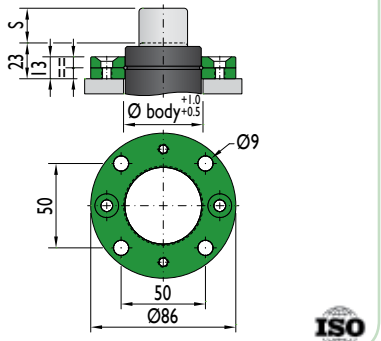
FR-500



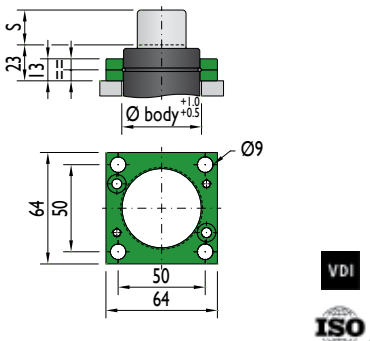
AR-500



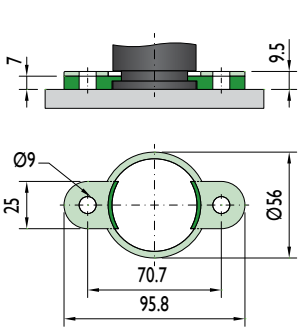
XS-500



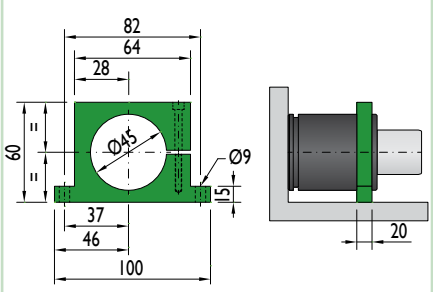
XC-500



PR-500

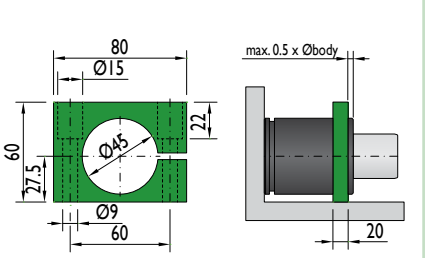


CS-500



Flange must not support spring's force

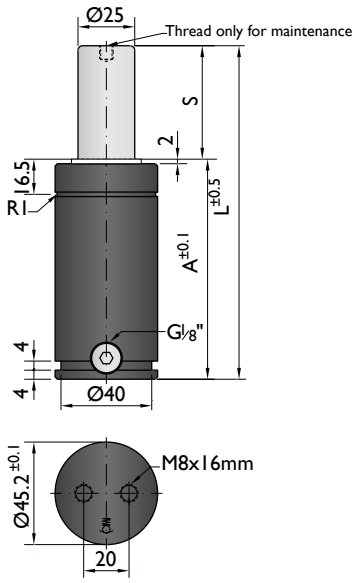
CF-500



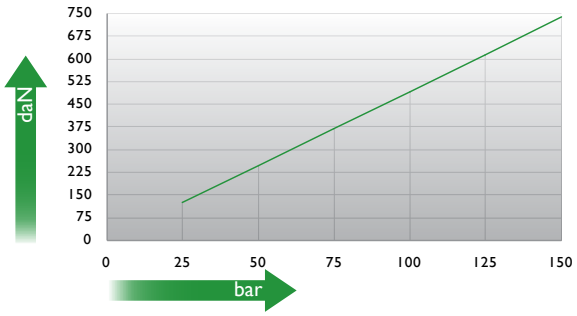
Flange must not support spring's force

VDI

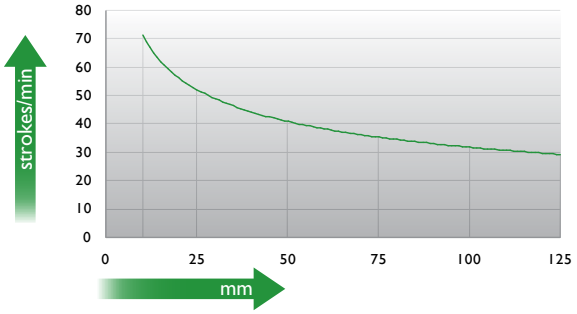
SMS DNH
3203N



Force / Pressure



Max. strokes / minutes



Ordering example: 4 x NR-750-125

Order No.	S [1] mm	L mm	A mm	F_0 [2] daN (20°C,150 bar)	F daN (20°C,150 bar)	[3]	kg
NR-750-10	10	67	57		1000	No	0.56
NR-750-13	13	73	60		1000	No	0.56
NR-750-16	16	79	63		1100	No	0.58
NR-750-19	19	85	66		1100	No	0.59
NR-750-25	25	97	72		1100	No	0.63
NR-750-32	32	111	79		1100	No	0.66
NR-750-38	38	123	85	740	1100	No	0.71
NR-750-50	50	147	97		1100	Yes	0.78
NR-750-63	63	173	110		1100	Yes	0.85
NR-750-75	75	197	122		1100	Yes	0.94
NR-750-80	80	207	127		1100	Yes	0.98
NR-750-100	100	247	147		1100	Yes	1.10
NR-750-125	125	297	172		1100	Yes	1.25

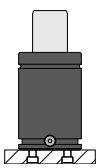
[1] other strokes under request

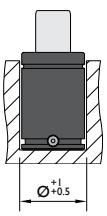
[2] alternative forces upon request

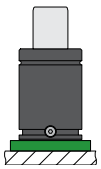
[3] ESK available for other strokes

Pressure medium	N_2	Working temperature	0-80°C	Min. security stroke	10%
Max. Charging pressure	150 bar	Temperature related force increase	+0.34%/°C	Repair Kit	KIT NR-750
Min. Charging pressure	25 bar	Max. working speed	1.6 m/s	Linkable	M6

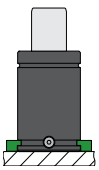
Mounting possibilities



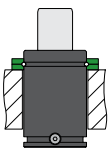




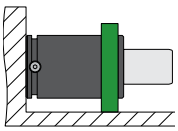
BFE-500
BFI-500



FR-500
AR-500
PR-500



XS-500
XC-500



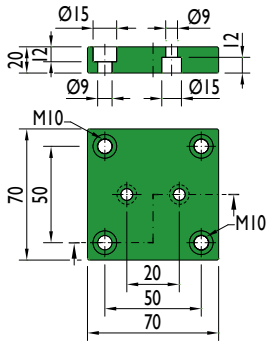
CS-500
CF-500

Flange must not support spring's force

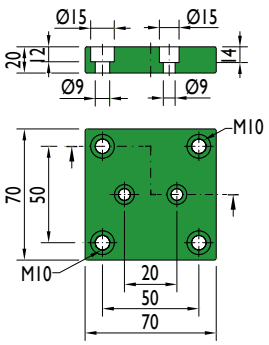
NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

Flanges

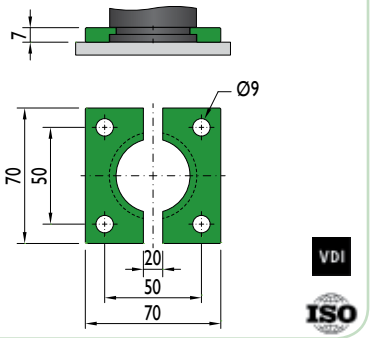
BFE-500



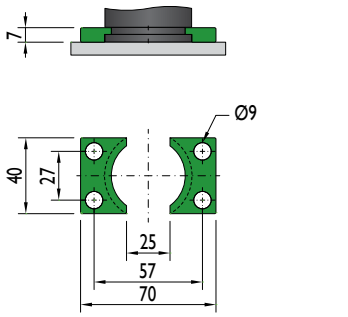
BFI-500



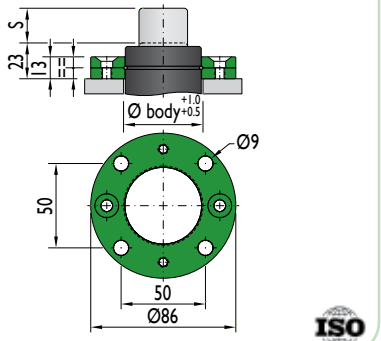
FR-500



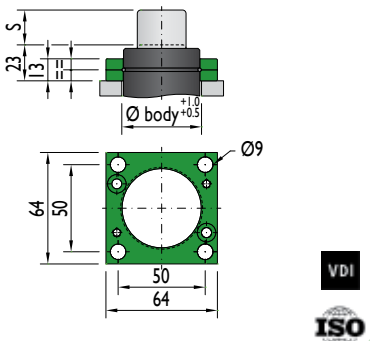
AR-500



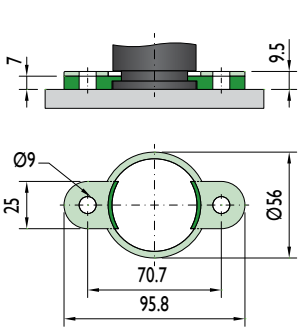
XS-500



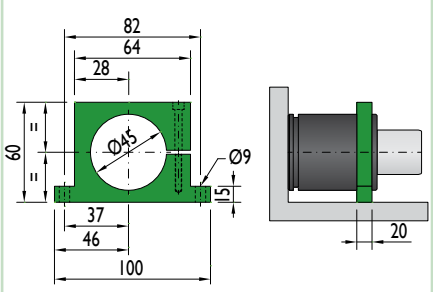
XC-500



PR-500

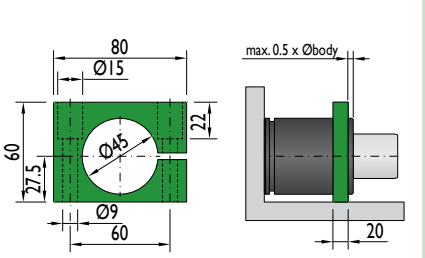


CS-500

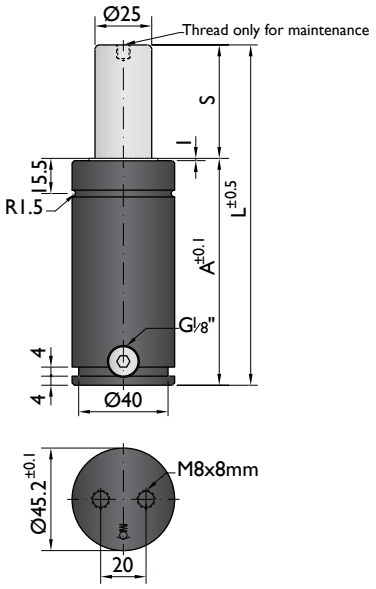


Flange must not support spring's force

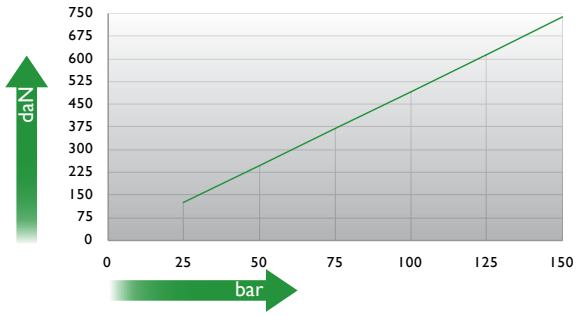
CF-500



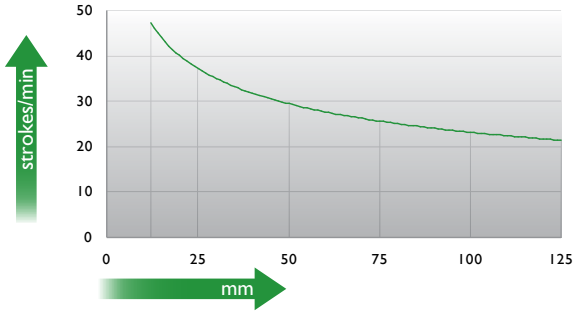
Flange must not support spring's force



Force / Pressure



Max. strokes / minutes



Ordering example: 4 x K-750-125

Order No.	S (1) mm	L mm	A mm	F_0 (2) daN (20°C,150 bar)	F daN	(3)	kg
K-750-12	12	74	62		1000	No	0.59
K-750-19	19	88	69		1100	No	0.69
K-750-25	25	100	75		1100	No	0.72
K-750-38	38	126	88		1200	No	0.80
K-750-50	50	150	100	740	1200	Yes	0.88
K-750-63	63	176	113		1200	Yes	0.90
K-750-80	80	210	130		1200	Yes	1.08
K-750-100	100	250	150		1200	Yes	1.23
K-750-125	125	300	175		1200	Yes	1.45

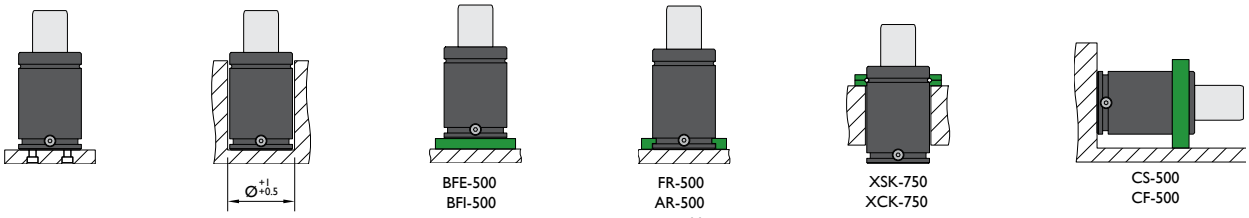
(1) other strokes under request

(2) alternative forces upon request

(3) ESK available for other strokes

Pressure medium	N_2	Working temperature	0-80°C	Min. security stroke	10%
Max. Charging pressure	150 bar	Temperature related force increase	+0.34%/°C	Repair Kit	KIT K-750
Min. Charging pressure	25 bar	Max. working speed	1.6 m/s	Linkable	G1/8"

Mounting possibilities

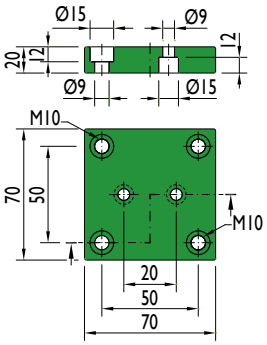


Flange must not support spring's force

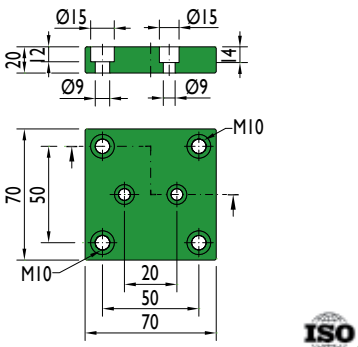
NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

Flanges

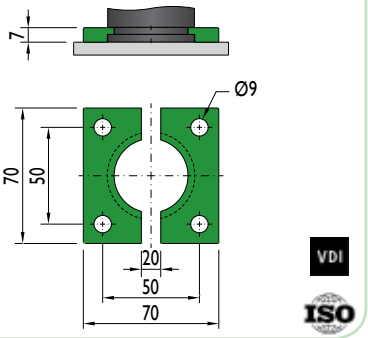
BFE-500



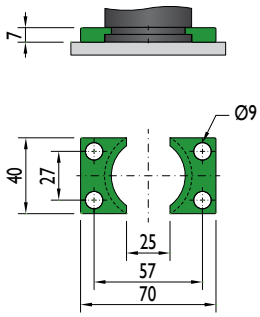
BFI-500



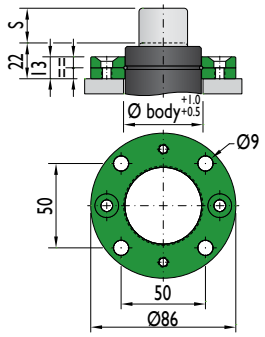
FR-500



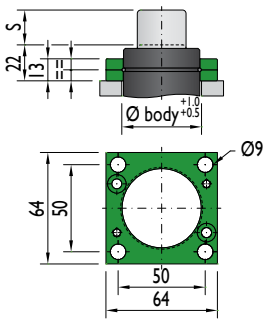
AR-500



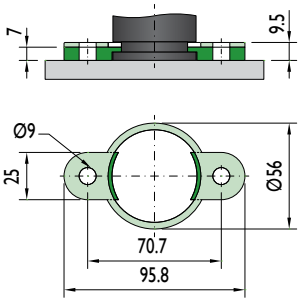
XSK-750



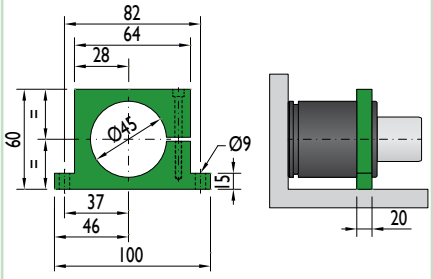
XCK-750



PR-500

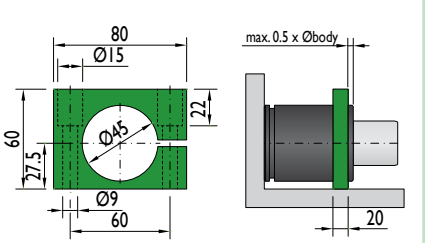


CS-500



Flange must not support spring's force

CF-500



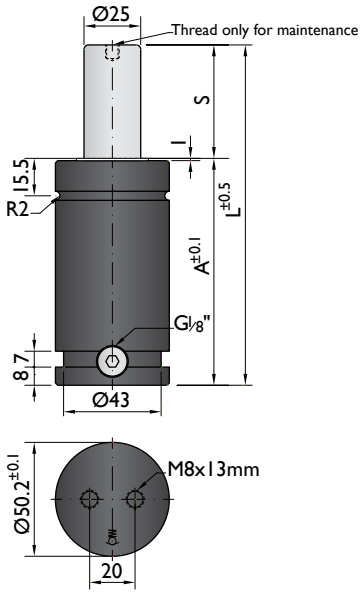
Flange must not support spring's force

VDI

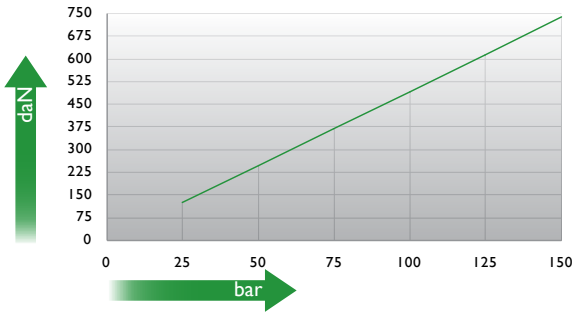
NITROGAS

KH-750

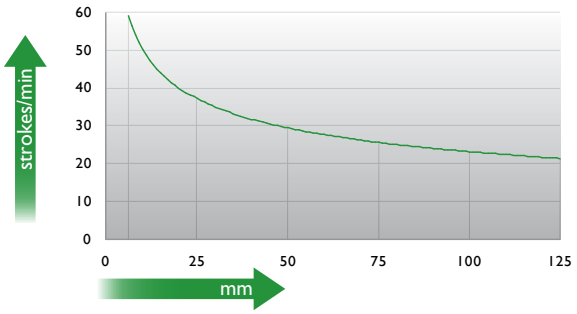
Low Profile - High Force



Force / Pressure



Max. strokes / minutes



Ordering example: 4 x KH-750-125

Order No.	S (1) mm	L mm	A mm	F_0 (2) daN (20°C,150 bar)	F daN (20°C,150 bar)	(3)	kg
KH-750-13	12.7	75.4	62.7		1300	No	0.73
KH-750-19	19	88	69		1300	No	0.80
KH-750-25	25	100	75		1200	No	0.84
KH-750-38	38.1	126.2	88.1		1100	No	0.95
KH-750-50	50	150	100	740	1100	Yes	1.06
KH-750-63	63.5	177	113.5		1100	Yes	1.14
KH-750-80	80	210	130		1100	Yes	1.32
KH-750-100	100	250	150		1100	Yes	1.50
KH-750-125	125	300	175		1100	Yes	1.62

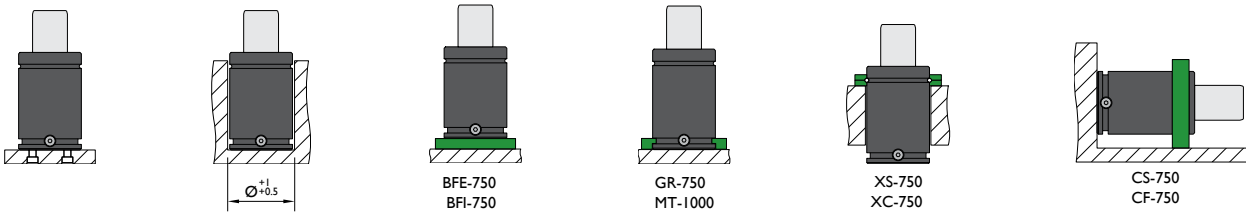
(1) other strokes under request

(2) alternative forces upon request

(3) ESK available for other strokes

Pressure medium	N_2	Working temperature	0-80°C	Min. security stroke	10%
Max. Charging pressure	150 bar	Temperature related force increase	+0.34%/°C	Repair Kit	KIT KH-750
Min. Charging pressure	25 bar	Max. working speed	1.6 m/s	Linkable	G1/8"

Mounting possibilities

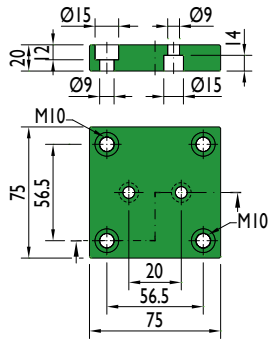


Flange must not support spring's force

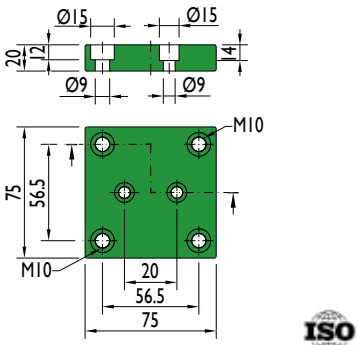
NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

Flanges

BFE-750

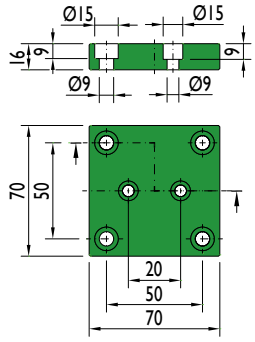


BFI-750

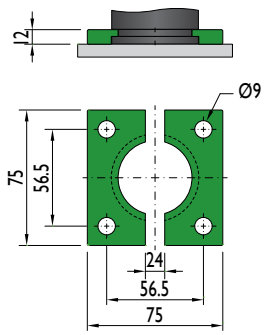


ISO

MC-1000



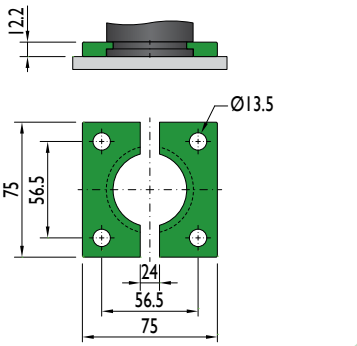
GR-750



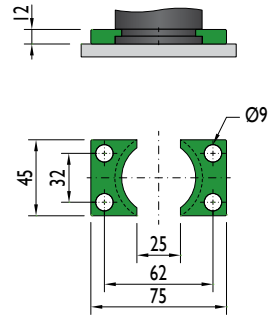
VDI

ISO

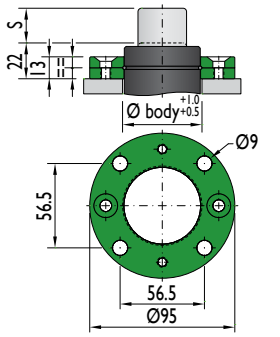
MT-1000



AR-750

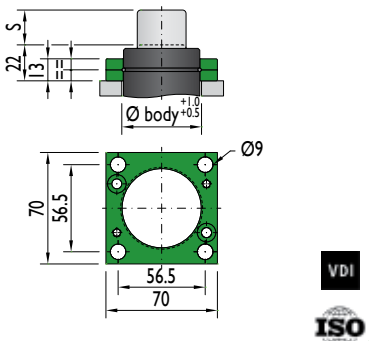


XS-750



ISO

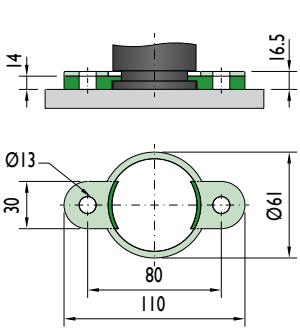
XC-750



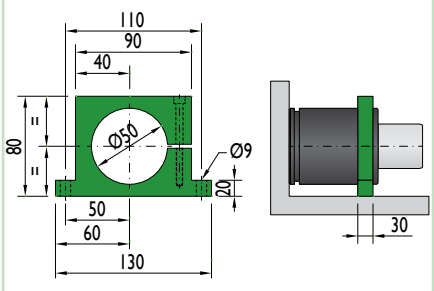
VDI

ISO

PR-750



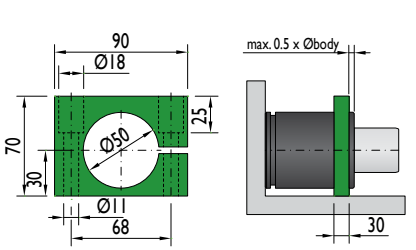
CS-750



Flange must not support spring's force

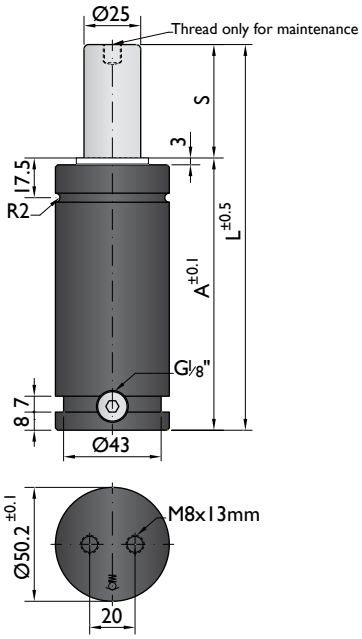
ISO

CF-750

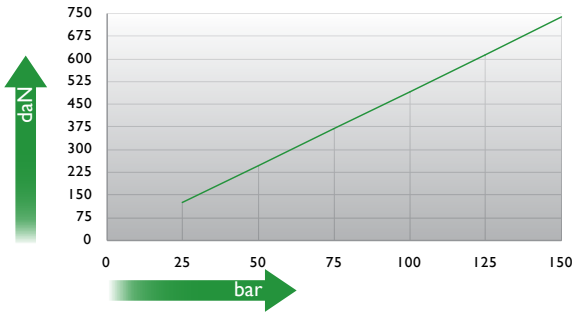


Flange must not support spring's force

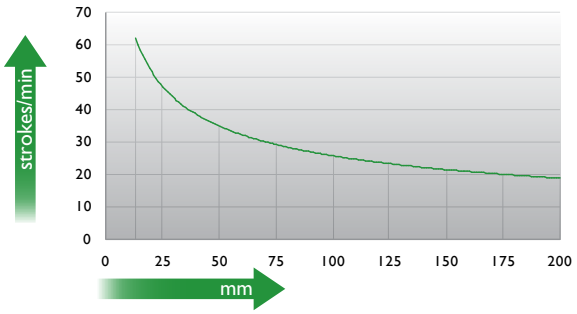
VDI



Force / Pressure



Max. strokes / minutes



Ordering example: 4 x HG-750-125

Order No.	S (1) mm	L mm	A mm	F_0 (2) daN (20°C,150 bar)	F daN	(3)	kg
HG-750-13	12.5	95	82.5	740	1100	No	0.97
HG-750-25	25	120	95		1100	No	1.08
HG-750-38	37.5	145	107.5		1100	No	1.2
HG-750-50	50	170	120		1100	No	1.32
HG-750-63	62.5	195	132.5		1100	No	1.42
HG-750-80	80	230	150		1100	Yes	1.58
HG-750-100	100	270	170		1100	Yes	1.77
HG-750-125	125	320	195		1200	Yes	2.01
HG-750-160	160	390	230		1200	Yes	2.34
HG-750-200	200	470	270		1200	Yes	2.72

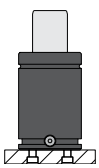
(1) other strokes under request

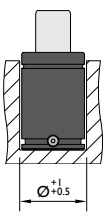
(2) alternative forces upon request

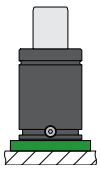
(3) ESK available for other strokes

Pressure medium	N_2	Working temperature	0-80°C	Min. security stroke	10%
Max. Charging pressure	150 bar	Temperature related force increase	+0.34%/°C	Repair Kit	KIT HG-750
Min. Charging pressure	25 bar	Max. working speed	1.6 m/s	Linkable	G1/8"

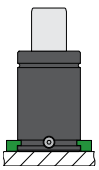
Mounting possibilities



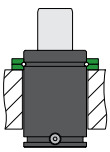




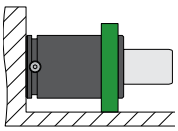
BFE-750
BFI-750
MC-1000



GR-750
MT-1000
AR-750
PR-750



XS-750
XC-750



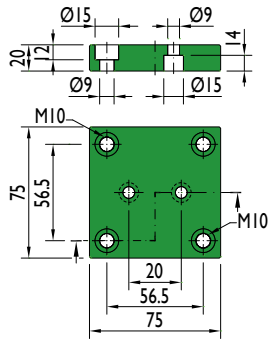
CS-750
CF-750

Flange must not support spring's force

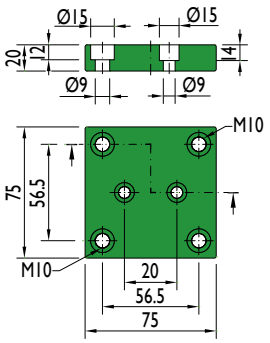
NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

Flanges

BFE-750

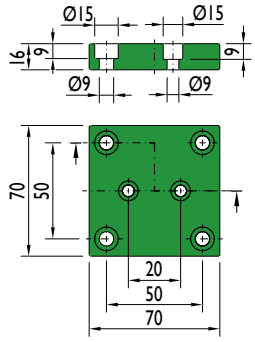


BFI-750

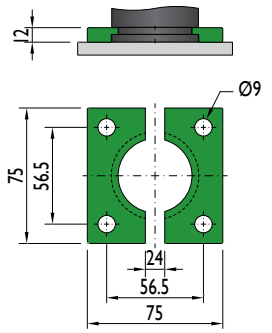


ISO

MC-1000



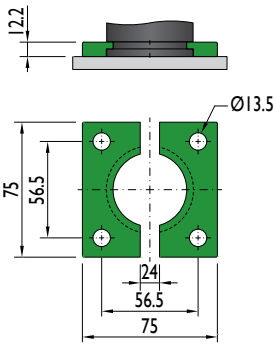
GR-750



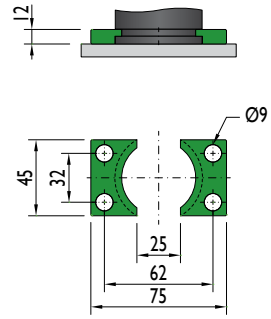
VDI

ISO

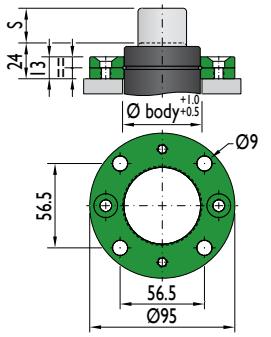
MT-1000



AR-750

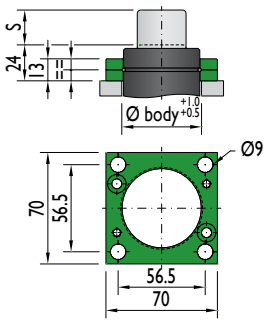


XS-750



ISO

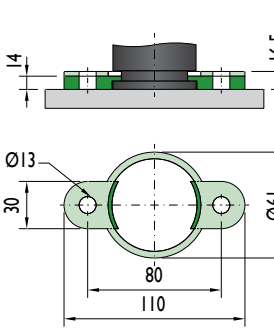
XC-750



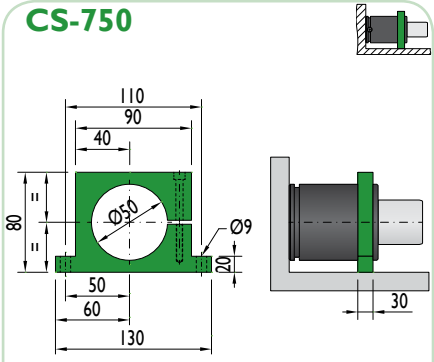
VDI

ISO

PR-750



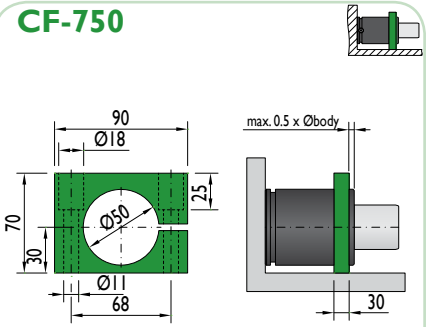
CS-750



Flange must not support spring's force

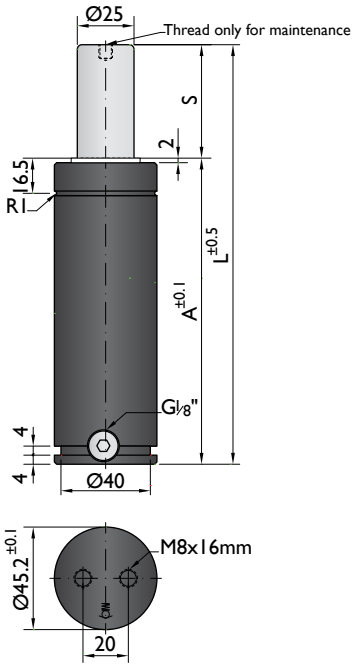
ISO

CF-750

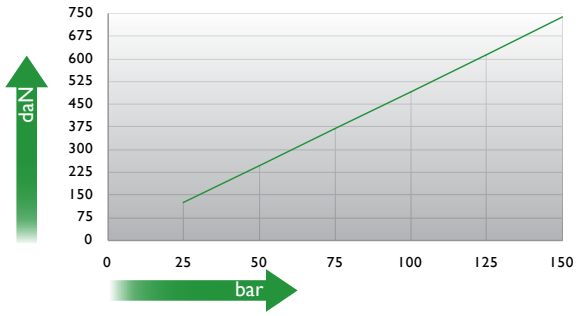


Flange must not support spring's force

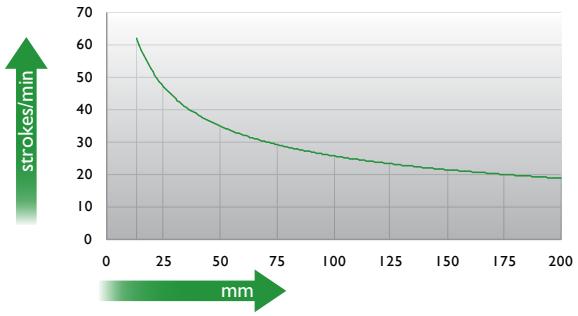
VDI



Force / Pressure



Max. strokes / minutes



Ordering example: 4 x HD-750-125

Order No.	S (1) mm	L mm	A mm	F_0 (2) daN (20°C,150 bar)	F daN	(3)	kg
HD-750-13	13	111	98	740	1100	No	0.80
HD-750-25	25	135	110		1100	No	0.93
HD-750-38	38	161	123		1100	No	1.10
HD-750-50	50	185	135		1200	No	1.17
HD-750-63	63	211	148		1200	No	1.30
HD-750-80	80	245	165		1200	Yes	1.45
HD-750-100	100	285	185		1200	Yes	1.65
HD-750-125	125	335	210		1200	Yes	1.80
HD-750-160	160	405	245		1300	Yes	1.84
HD-750-200	200	485	285		1300	Yes	2.23

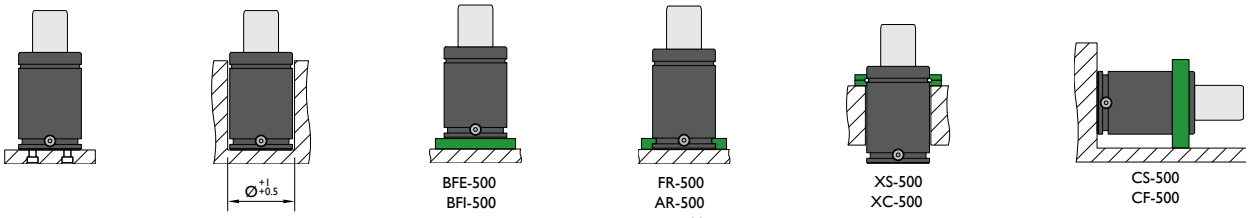
(1) other strokes under request

(2) alternative forces upon request

(3) ESK available for other strokes

Pressure medium	N_2	Working temperature	0-80°C	Min. security stroke	10%
Max. Charging pressure	150 bar	Temperature related force increase	+0.34%/°C	Repair Kit	KIT HD-750
Min. Charging pressure	25 bar	Max. working speed	1.6 m/s	Linkable	G1/8"

Mounting possibilities

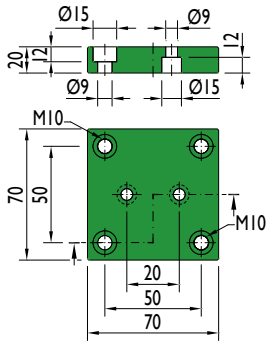


Flange must not support spring's force

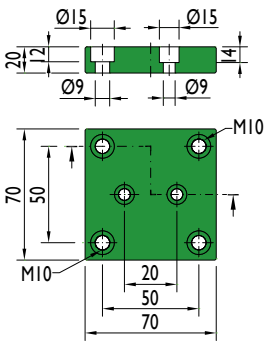
NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

Flanges

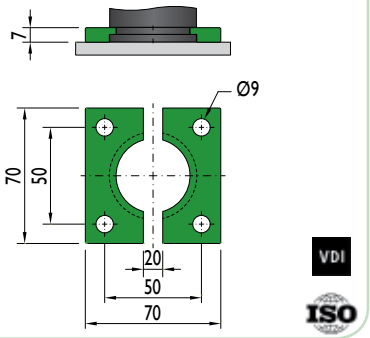
BFE-500



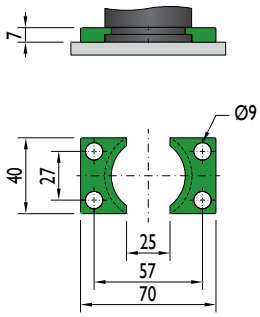
BFI-500



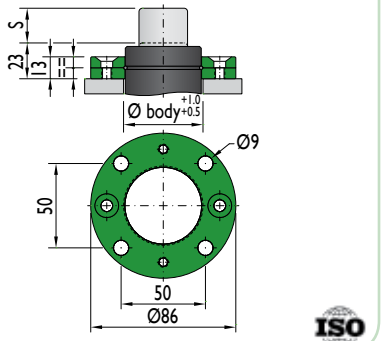
FR-500



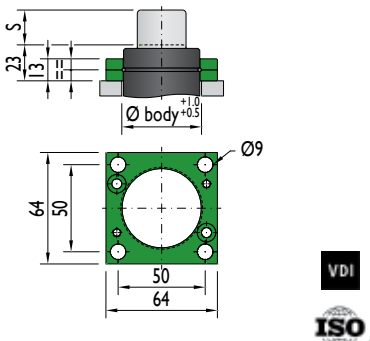
AR-500



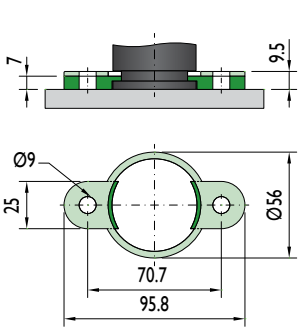
XS-500



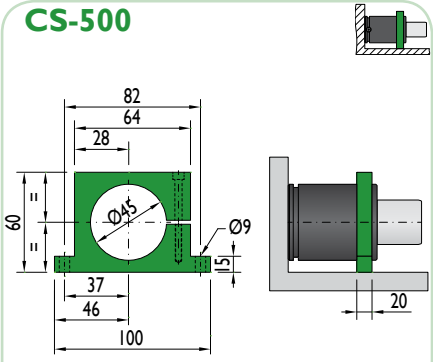
XC-500



PR-500

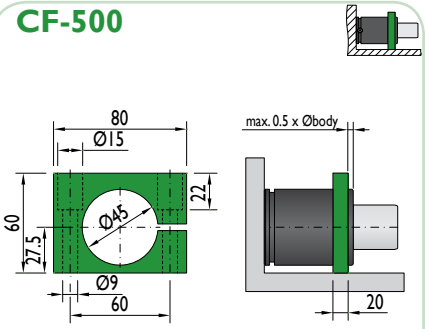


CS-500



Flange must not support spring's force

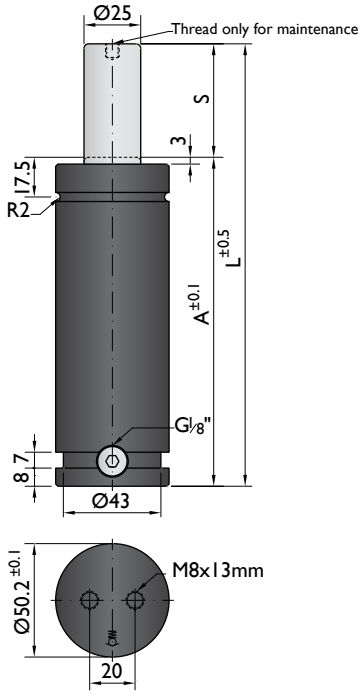
CF-500



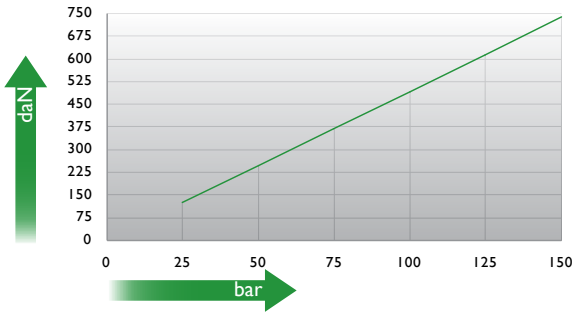
Flange must not support spring's force

CNOMO
EM24.54.700

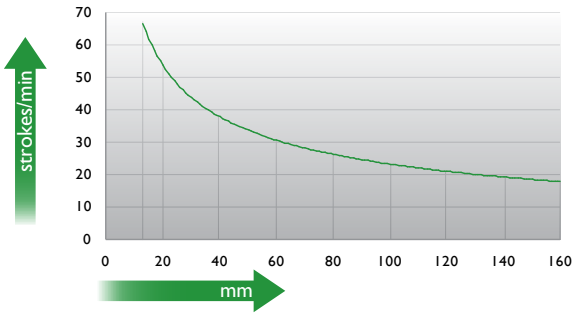
PSA
E24.54.815.G



Force / Pressure



Max. strokes / minutes



Ordering example: 4 x G-750-125

Order No.	S (1) mm	L mm	A mm	F_0 daN (20°C,150 bar)	F daN	(3)	kg
G-750-13	12.7	120.4	107.7	740	800	No	1.20
G-750-25	25	145	120		900	No	1.21
G-750-38	38.1	171.2	133.1		900	No	1.38
G-750-50	50	195	145		900	No	1.50
G-750-63	63.5	222	158.5		900	No	1.57
G-750-80	80	255	175		1000	No	1.63
G-750-100	100	295	195		1000	Yes	1.85
G-750-125	125	345	220		1000	Yes	2.01
G-750-160	160	415	255		1100	Yes	3.80
G-750-200	200	495	295		1100	Yes	3.90
G-750-250	250	595	345		1200	Yes	4.00
G-750-300	300	695	395		1200	Yes	4.20

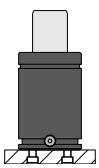
(1) other strokes under request

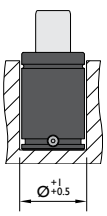
(2) alternative forces upon request

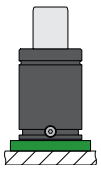
(3) ESK available for other strokes

Pressure medium	N_2	Working temperature	0-80°C	Min. security stroke	10%
Max. Charging pressure	150 bar	Temperature related force increase	+0.34%/°C	Repair Kit	KIT G-750
Min. Charging pressure	25 bar	Max. working speed	1.6 m/s	Linkable	G1/8"

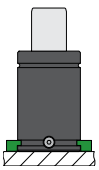
Mounting possibilities



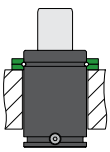




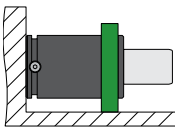
BFE-750
BFI-750
MC-1000



GR-750
MT-1000
AR-750
PR-750



XS-750
XC-750



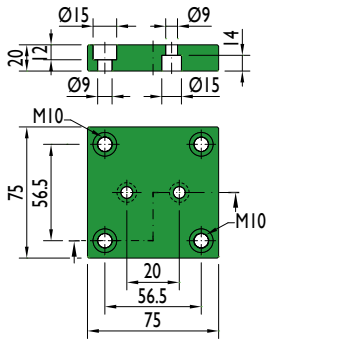
CS-750
CF-750

Flange must not support spring's force

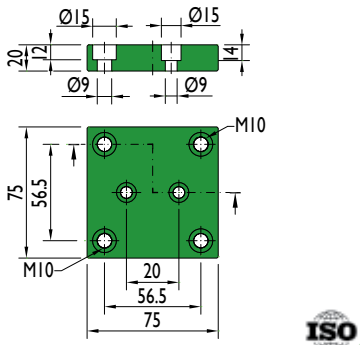
NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

Flanges

BFE-750

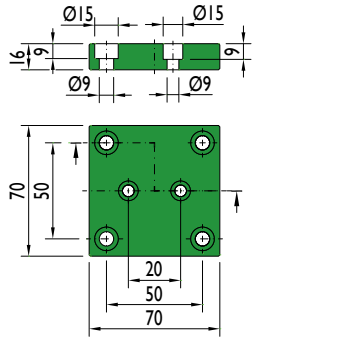


BFI-750

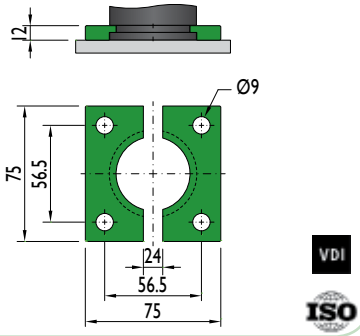


ISO

MC-1000



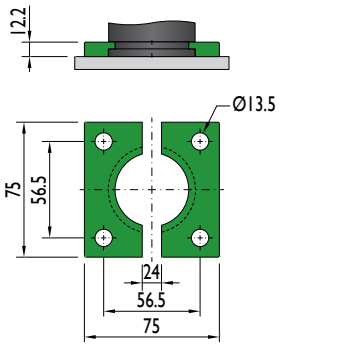
GR-750



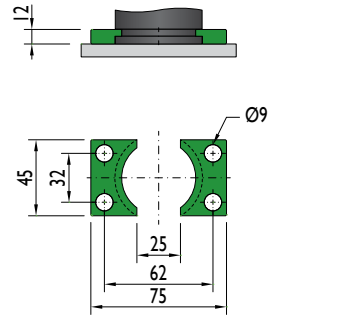
VDI

ISO

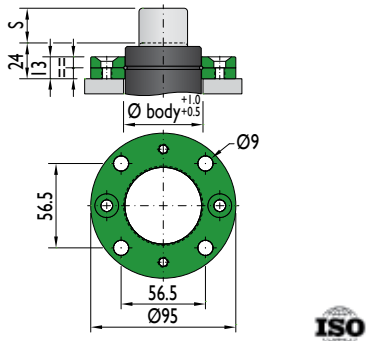
MT-1000



AR-750

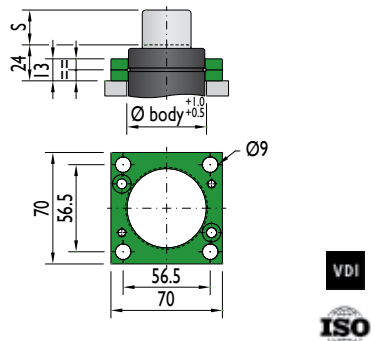


XS-750



ISO

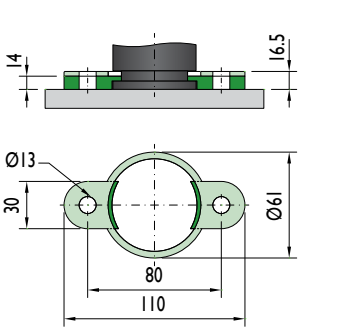
XC-750



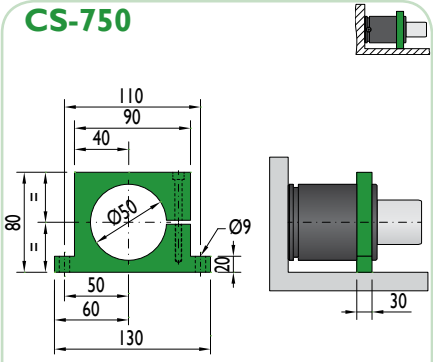
VDI

ISO

PR-750



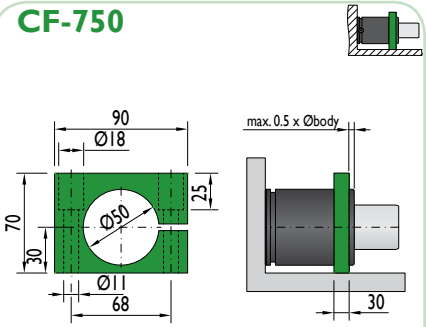
CS-750



Flange must not support spring's force

ISO

CF-750

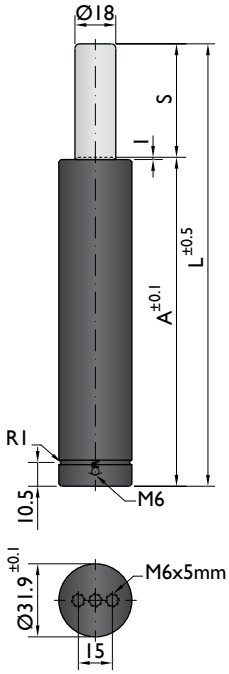


Flange must not support spring's force

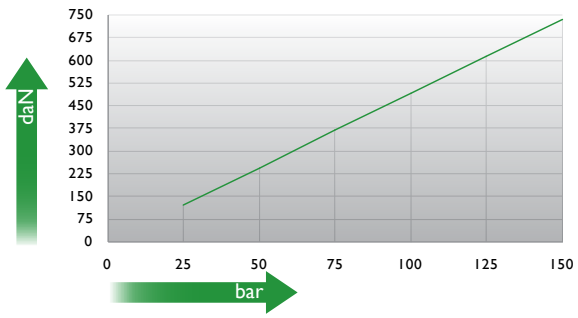
VDI

Special mounts available on

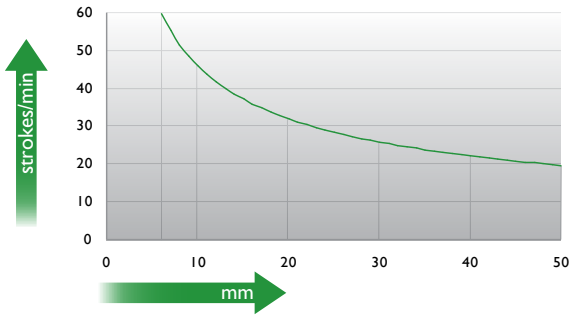
www.nitrogas.com



Force / Pressure



Max. strokes / minutes



Ordering example: 4 x T-750-50

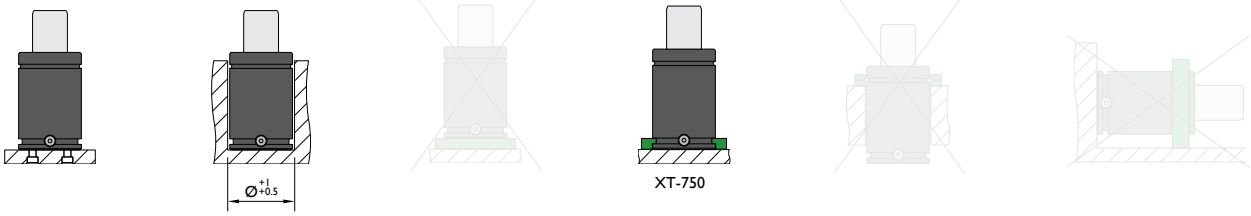
Order No.	S (1) mm	L mm	A mm	F_0 (2) daN (20°C,150 bar)	F daN		kg
T-750-6	6	63	57		1200	No	0.27
T-750-10	10	75	65		1200	No	0.32
T-750-16	16	93	77		1200	No	0.36
T-750-25	25	120	95	740	1300	No	0.47
T-750-32	32	140	108		1300	No	0.48
T-750-40	40	165	125		1300	No	0.55
T-750-50	50	195	145		1300	No	0.63

(1) other strokes under request

(2) alternative forces upon request

Pressure medium	N_2	Working temperature	0-80°C	Min. security stroke	10%
Max. Charging pressure	150 bar	Temperature related force increase	+0.34%/°C	Repair Kit	Non-repairable
Min. Charging pressure	25 bar	Max. working speed	0.5 m/s	Linkable	No

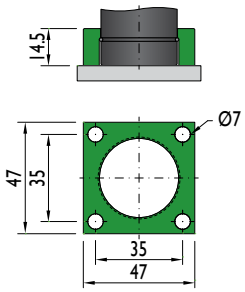
Mounting possibilities

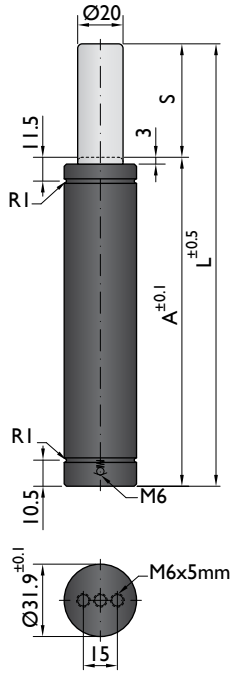


NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

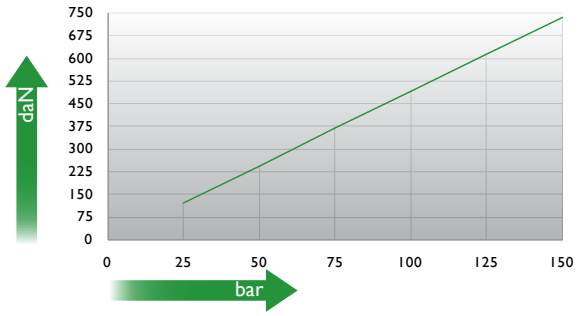
Flanges

XT-750

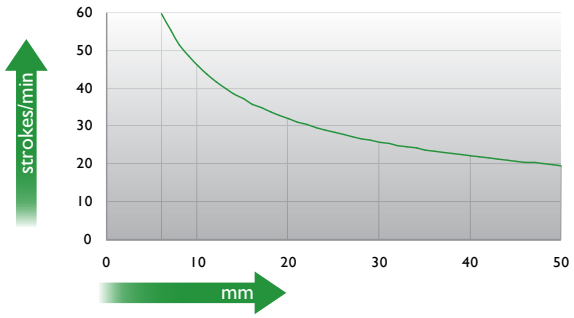




Force / Pressure



Max. strokes / minutes



Ordering example: 4 x TS-750-50

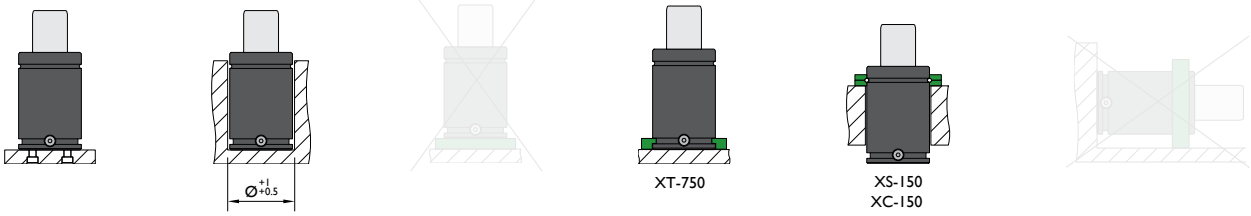
Order No.	S (1) mm	L mm	A mm	F_0 (2) daN (20°C,150 bar)	F daN		kg
TS-750-6	6	63	57		1200	No	0.27
TS-750-10	10	75	65		1200	No	0.32
TS-750-16	16	93	77		1200	No	0.36
TS-750-25	25	120	95	740	1300	No	0.47
TS-750-32	32	140	108		1300	No	0.48
TS-750-40	40	165	125		1300	No	0.55
TS-750-50	50	195	145		1300	No	0.63

(1) other strokes under request

(2) alternative forces upon request

Pressure medium	N_2	Working temperature	0-80°C	Min. security stroke	10%
Max. Charging pressure	150 bar	Temperature related force increase	+0.34%/°C	Repair Kit	Non-repairable
Min. Charging pressure	25 bar	Max. working speed	0.5 m/s	Linkable	No

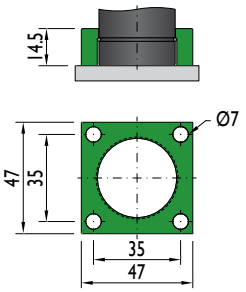
Mounting possibilities



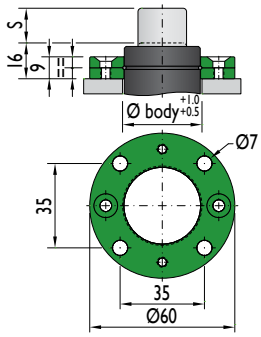
NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

Flanges

XT-750

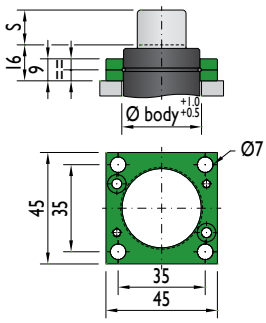


XS-150



ISO

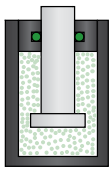
XC-150

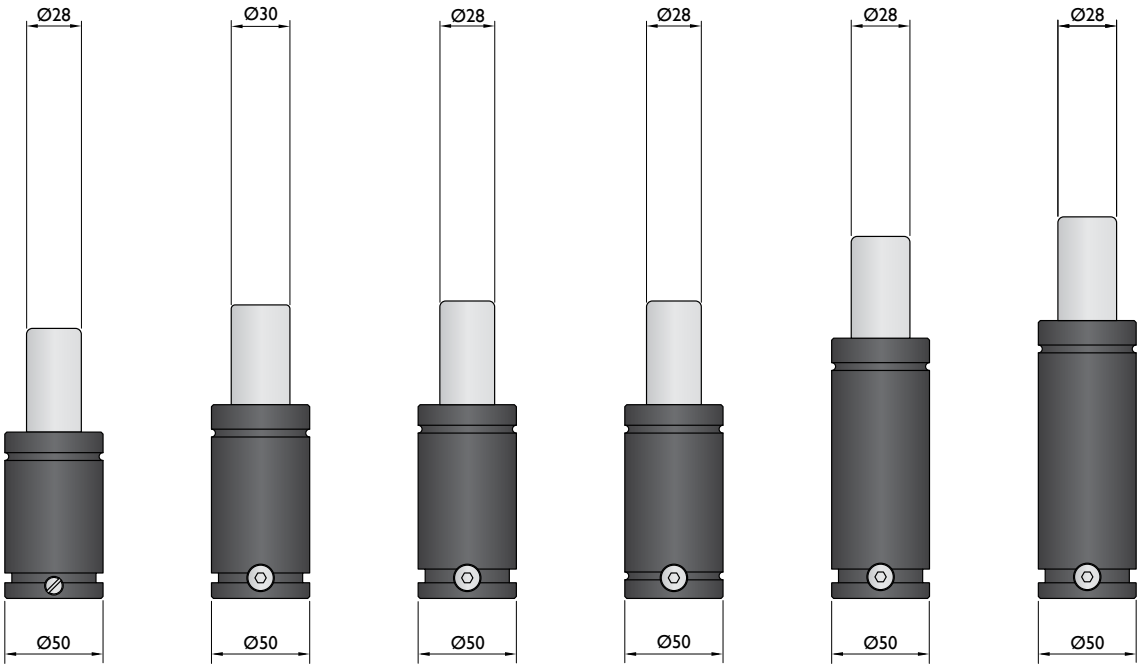


VDI

Force 1000 daN

Piston Rod Sealed gas springs





	KP-1000	K-1000	NR-1000	NT-1000	M-1000	HD-1000
Model						
Initial F (daN)	920	990	920	920	920	920
L max (mm)	2xStroke+38	2xStroke+50	2xStroke+52	2xStroke+52	2xStroke+85	2xStroke+95
Stroke (mm)	13-125	12-125	13-125	13-125	25-160	25-300

* other strokes under request

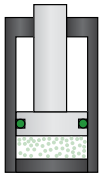
Standards

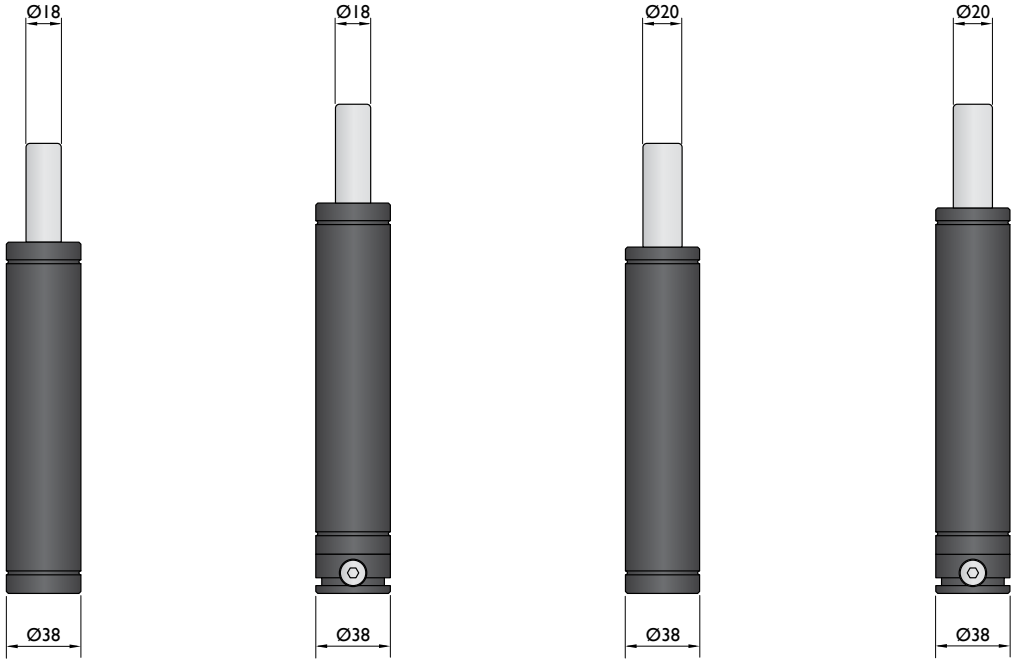
PED 2014/68/EU	**PED** 2014/68/EU	**PED** 2014/68/EU	**PED** 2014/68/EU	**PED** 2014/68/EU	**PED** 2014/68/EU
ISO 11901	ISO 11901	ISO 11901	ISO 11901	ISO 11901	ISO 11901
VDI 3003	VDI 3003	VDI 3003	VDI 3003	VDI 3003	VDI 3003
CNOMO EM24.54.700	CNOMO EM24.54.700	CNOMO EM24.54.700	CNOMO EM24.54.700	CNOMO EM24.54.700	CNOMO EM24.54.700

NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

Force 1000 daN

Bore Sealed gas springs





Model	T-1000	TC-1000	TS-1000	TSC-1000
Initial F (daN)	920	920	920	920
L max (mm)	61-230	81-250	61-230	81-250
Stroke (mm)	6-50	6-50	6-50	6-50

* other strokes under request

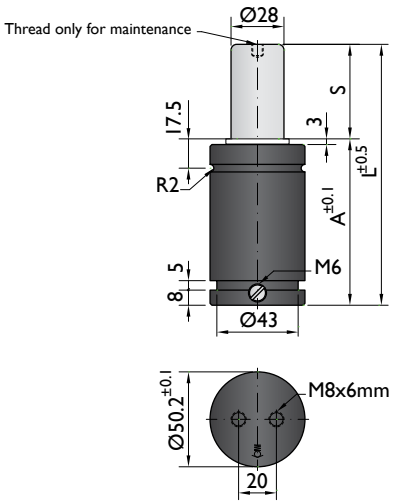
Standards

PED 2014/68/EU	**PED** 2014/68/EU	**PED** 2014/68/EU	**PED** 2014/68/EU
ISO 11901	ISO 11901	ISO 11901	ISO 11901
VDI 3003	VDI 3003	VDI 3003	VDI 3003
CNOMO EM24.54.700	CNOMO EM24.54.700	CNOMO EM24.54.700	CNOMO EM24.54.700

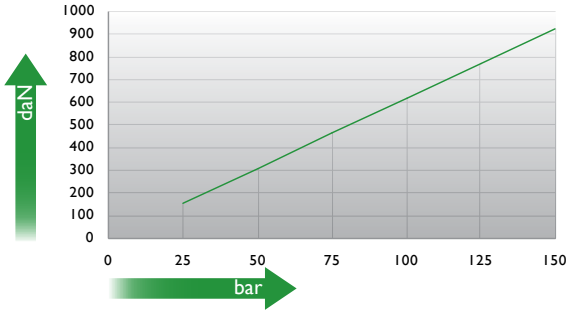
NITROGAS

KP-1000

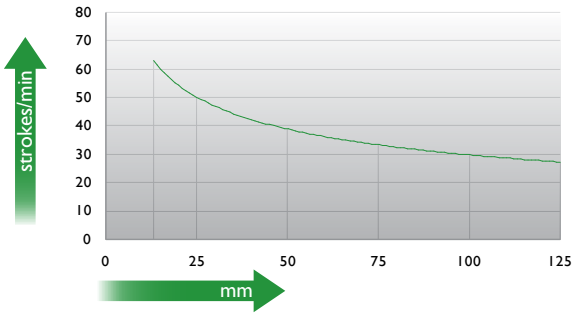
Low Profile - High Force



Force / Pressure



Max. strokes / minutes



Ordering example: 4 x KP-1000-125

Order No.	S (1) mm	L mm	A mm	F_0 (2) daN (20°C,150 bar)	F daN	(3)	kg
KP-1000-13	13	64	51	920	1400	No	0.57
KP-1000-16	16	70	54		1400	No	0.59
KP-1000-19	19	76	57		1400	No	0.62
KP-1000-25	25	88	63		1400	No	0.67
KP-1000-32	32	102	70		1400	No	0.73
KP-1000-38	38	114	76		1400	No	0.78
KP-1000-50	50	138	88		1400	Yes	0.88
KP-1000-63	63	164	101		1400	Yes	0.99
KP-1000-75	75	188	113		1400	Yes	1.09
KP-1000-80	80	198	118		1400	Yes	1.13
KP-1000-100	100	238	138		1400	Yes	1.30
KP-1000-125	125	288	163		1400	Yes	1.51

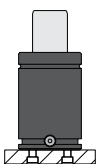
(1) other strokes under request

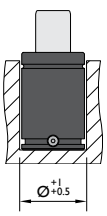
(2) alternative forces upon request

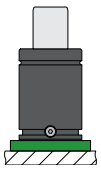
(3) ESK available for other strokes

Pressure medium	N_2	Working temperature	0-80°C	Min. security stroke	10%
Max. Charging pressure	150 bar	Temperature related force increase	+0.34%/°C	Repair Kit	KIT KP-1000
Min. Charging pressure	25 bar	Max. working speed	1.6 m/s	Linkable	M6

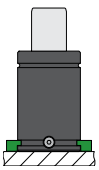
Mounting possibilities



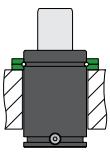




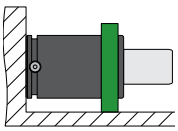
BFE-750
BFI-750
MC-1000



GR-750
MT-1000
AR-750
PR-750



XS-750
XC-750



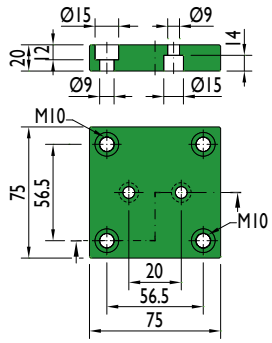
CS-750
CF-750

Flange must not support spring's force

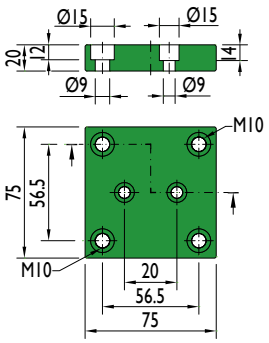
NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

Flanges

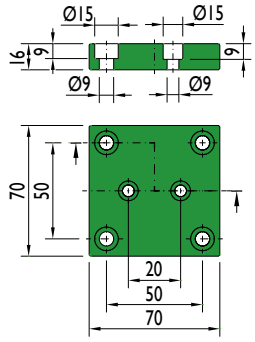
BFE-750



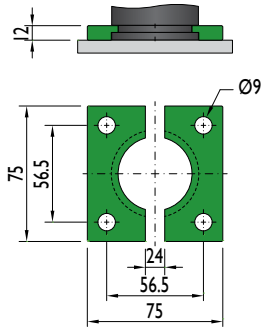
BFI-750



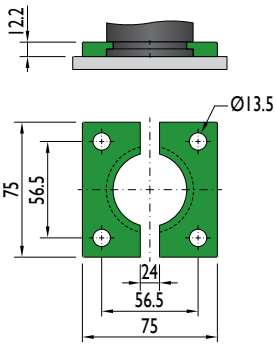
MC-1000



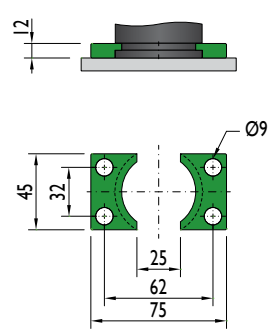
GR-750



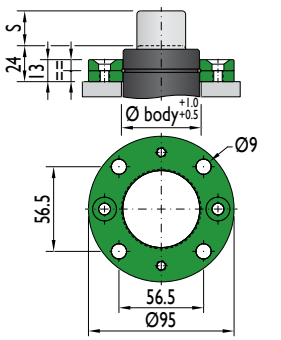
MT-1000



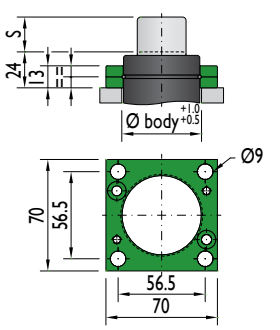
AR-750



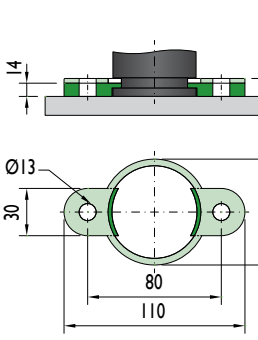
XS-750



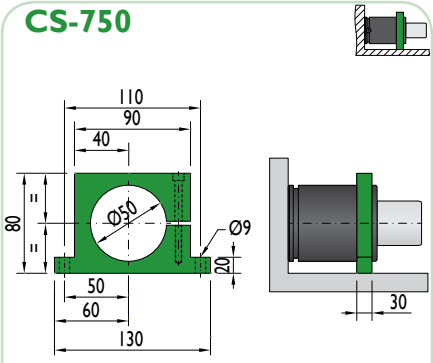
XC-750



PR-750

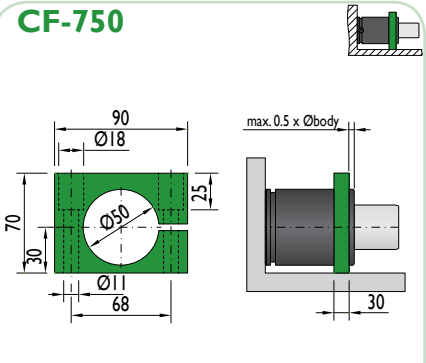


CS-750



Flange must not support spring's force

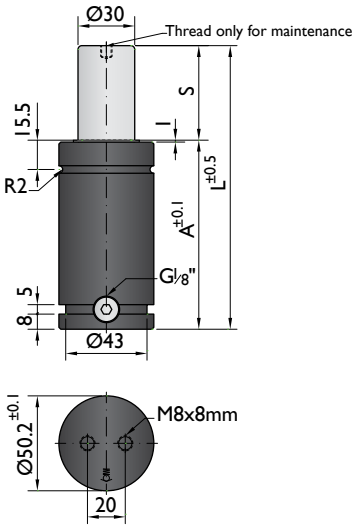
CF-750



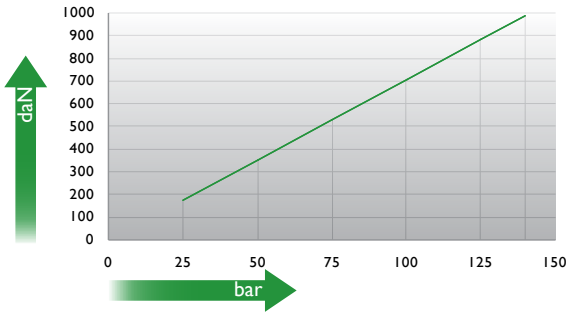
Flange must not support spring's force

K-1000

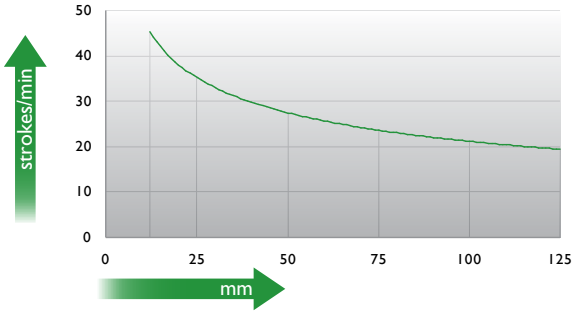
Low Profile - High Force



Force / Pressure



Max. strokes / minutes



Ordering example: 4 x K-1000-125

Order No.	S (1) mm	L mm	A mm	F_0 (2) daN (20°C,140 bar)	F daN	(3)	kg
K-1000-12	12	74	62		1500	No	0.69
K-1000-19	19	88	69		1500	No	0.78
K-1000-25	25	100	75		1600	No	0.84
K-1000-38	38	126	88		1600	No	0.96
K-1000-50	50	150	100	990	1600	Yes	1.06
K-1000-63	63	176	113		1700	Yes	1.18
K-1000-80	80	210	130		1700	Yes	1.35
K-1000-100	100	250	150		1700	Yes	1.40
K-1000-125	125	300	175		1700	Yes	1.49

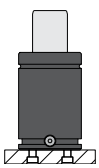
(1) other strokes under request

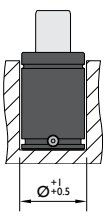
(2) alternative forces upon request

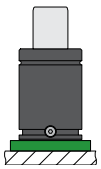
(3) ESK available for other strokes

Pressure medium	N_2	Working temperature	0-80°C	Min. security stroke	10%
Max. Charging pressure	140 bar	Temperature related force increase	+0.34%/°C	Repair Kit	KIT K-1000
Min. Charging pressure	25 bar	Max. working speed	1.6 m/s	Linkable	G1/8"

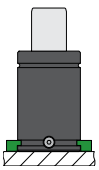
Mounting possibilities



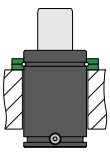




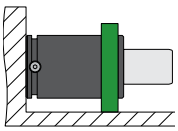
BFE-750
BFI-750
MC-1000



GR-750
MT-1000
AR-750
PR-750



XS-750
XC-750



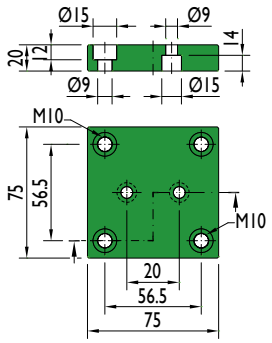
CS-750
CF-750

Flange must not support spring's force

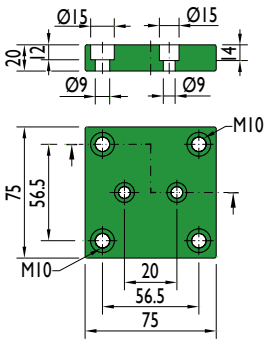
NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

Flanges

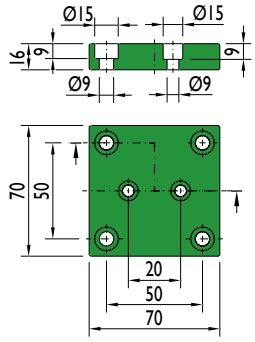
BFE-750



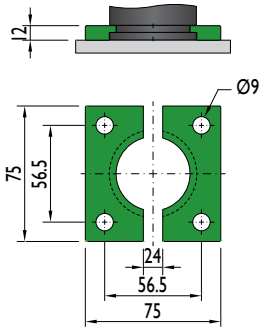
BFI-750



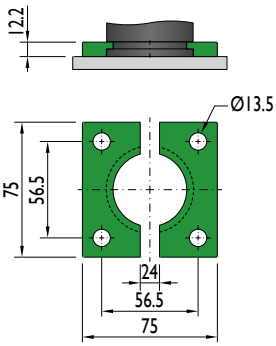
MC-1000



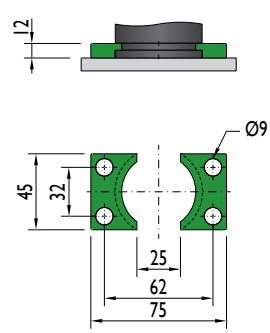
GR-750



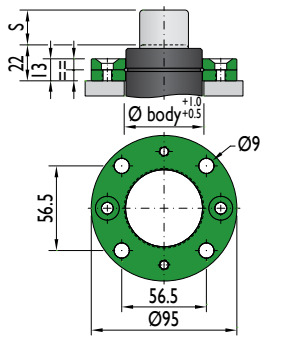
MT-1000



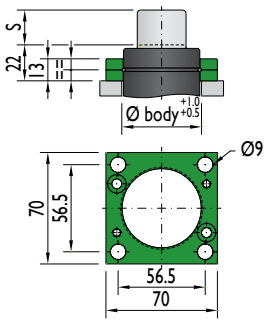
AR-750



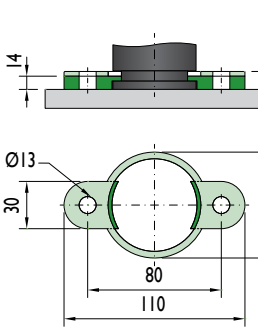
XS-750



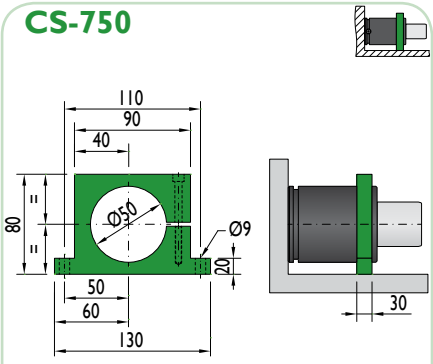
XC-750



PR-750

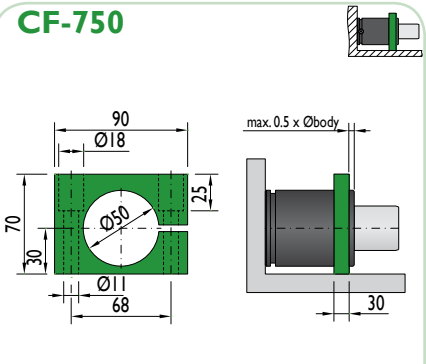


CS-750



Flange must not support spring's force

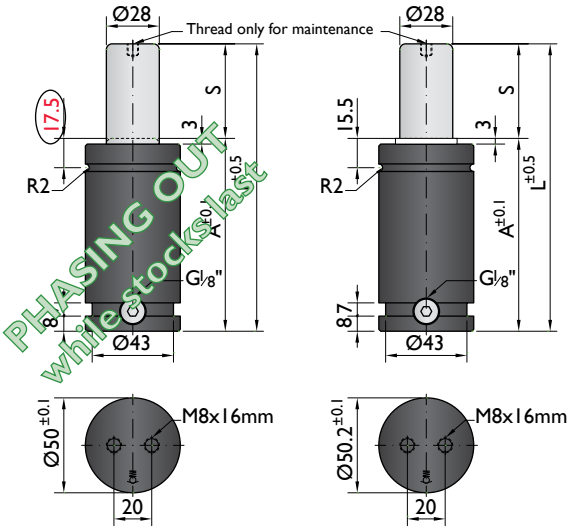
CF-750



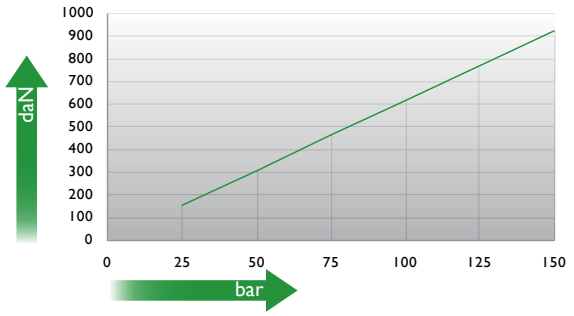
Flange must not support spring's force

*The new cylinder will be supplied when the stock runs out.

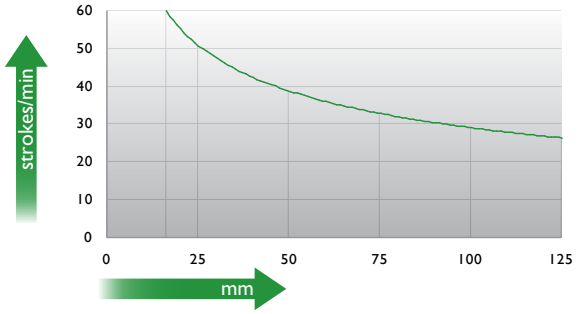
NEW MODEL*



Force / Pressure



Max. strokes / minutes



Ordering example: 4 x NR-1000-125

Order No.	S (1) mm	L mm	A mm	F_0 (2) daN (20°C,150 bar)	F daN	(3)	kg
NR-1000-13	13	78	65	920	1300	No	0.70
NR-1000-16	16	84	68		1300	No	0.76
NR-1000-19	19	90	71		1300	No	0.80
NR-1000-25	25	102	77		1300	No	0.84
NR-1000-32	32	116	84		1300	No	0.90
NR-1000-38	38	128	90		1400	No	0.96
NR-1000-50	50	152	102		1400	Yes	1.06
NR-1000-63	63	178	115		1400	Yes	1.18
NR-1000-75	75	202	127		1400	Yes	1.28
NR-1000-80	80	212	132		1400	Yes	1.35
NR-1000-100	100	252	152		1400	Yes	1.40
NR-1000-125	125	302	177		1400	Yes	1.49

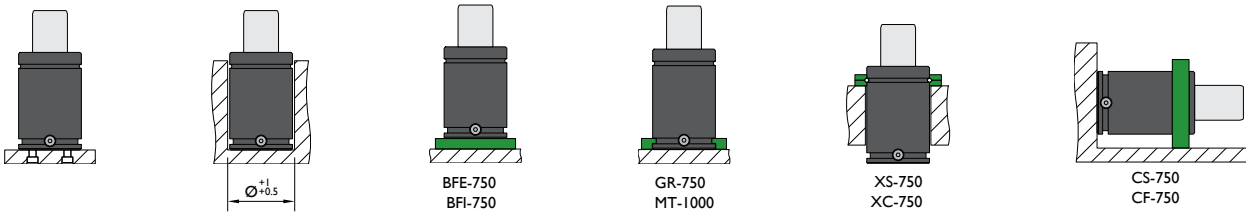
(1) other strokes under request

(2) alternative forces upon request

(3) ESK available for other strokes

Pressure medium	N_2	Working temperature	0-80°C	Min. security stroke	10%
Max. Charging pressure	150 bar	Temperature related force increase	+0.34%/°C	Repair Kit	KIT NR-1000
Min. Charging pressure	25 bar	Max. working speed	1.6 m/s	Linkable	G1/8"

Mounting possibilities

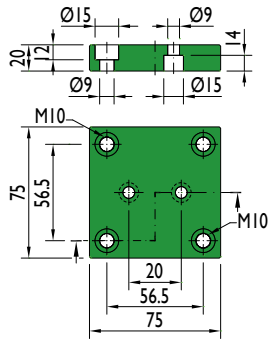


Flange must not support spring's force

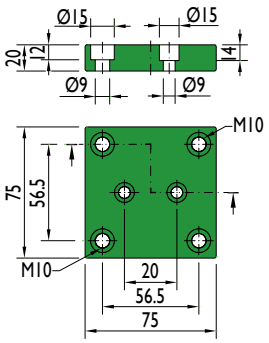
NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

Flanges

BFE-750

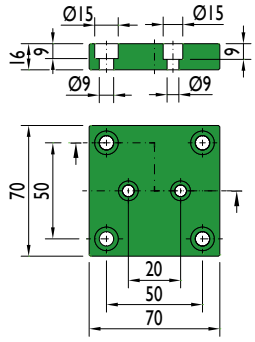


BFI-750

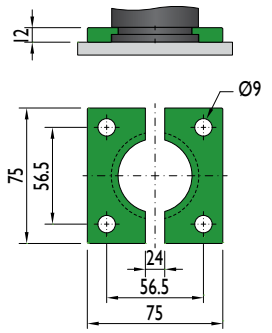


ISO

MC-1000



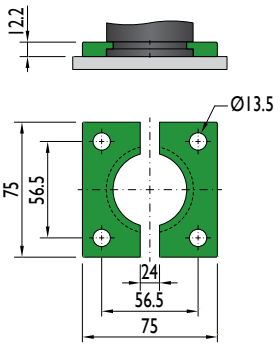
GR-750



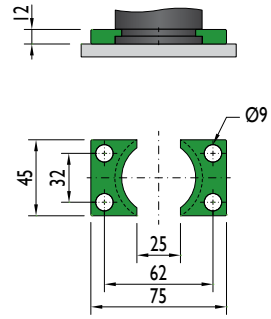
VDI

ISO

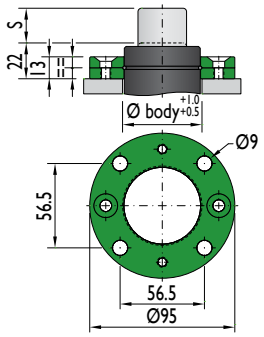
MT-1000



AR-750

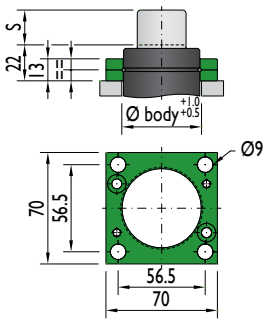


XS-750



ISO

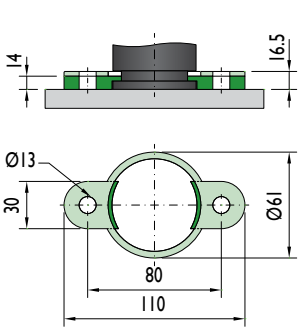
XC-750



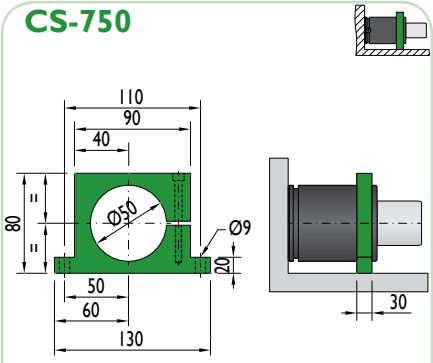
VDI

ISO

PR-750



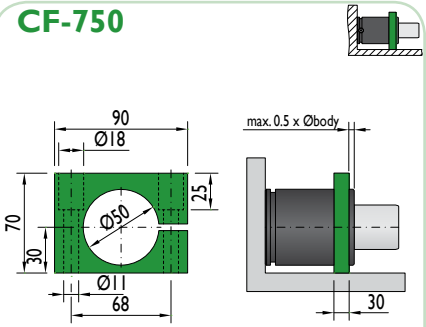
CS-750



Flange must not support spring's force

ISO

CF-750



Flange must not support spring's force

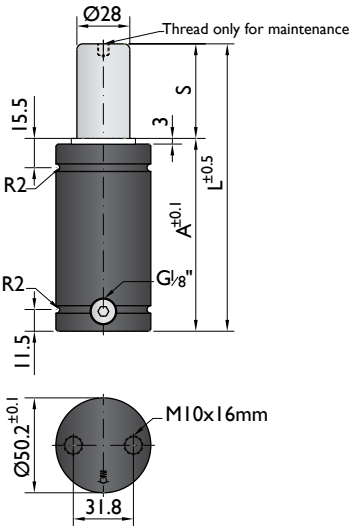
VDI

NT-1000

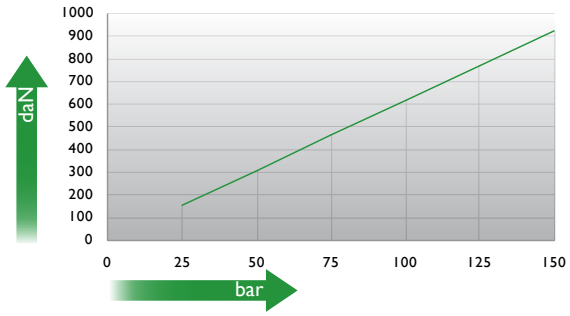
Low Profile - High Force

PSA
E24.54.815.G

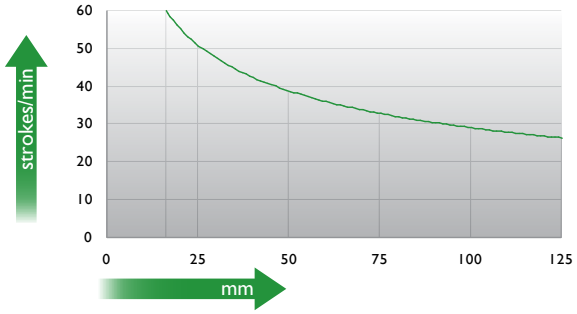
SMS DNH
3203N



Force / Pressure



Max. strokes / minutes



Ordering example: 4 x NT-1000-125

Order No.	S (1) mm	L mm	A mm	F_0 (2) daN (20°C,150 bar)	F daN	(3)	kg
NT-1000-13	13	78	65		1300	No	0.70
NT-1000-16	16	84	68		1300	No	0.76
NT-1000-19	19	90	71		1300	No	0.80
NT-1000-25	25	102	77		1300	No	0.84
NT-1000-32	32	116	84		1300	No	0.90
NT-1000-38	38	128	90	920	1400	No	0.96
NT-1000-50	50	152	102		1400	Yes	1.06
NT-1000-63	63	178	115		1400	Yes	1.18
NT-1000-75	75	202	127		1400	Yes	1.28
NT-1000-80	80	212	132		1400	Yes	1.35
NT-1000-100	100	252	152		1400	Yes	1.40
NT-1000-125	125	302	177		1400	Yes	1.49

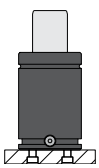
(1) other strokes under request

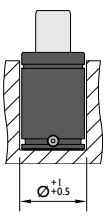
(2) alternative forces upon request

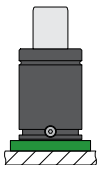
(3) ESK available for other strokes

Pressure medium	N_2	Working temperature	0-80°C	Min. security stroke	10%
Max. Charging pressure	150 bar	Temperature related force increase	+0.34%/°C	Repair Kit	KIT NT-1000
Min. Charging pressure	25 bar	Max. working speed	1.6 m/s	Linkable	G1/8"

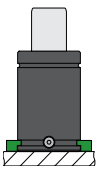
Mounting possibilities



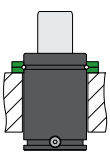




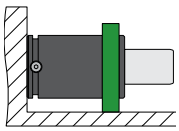
BNE-1000
BNI-1000
BFP-1000



XN-1000



XS-750
XC-750



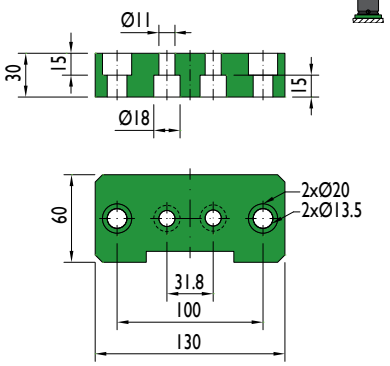
CS-750
CF-750

Flange must not support spring's force

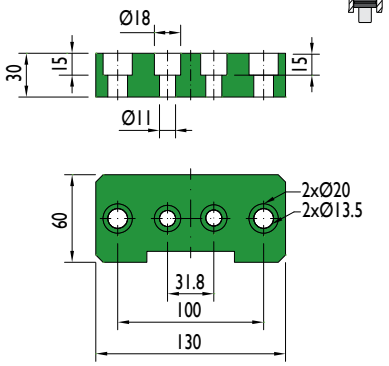
NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

Flanges

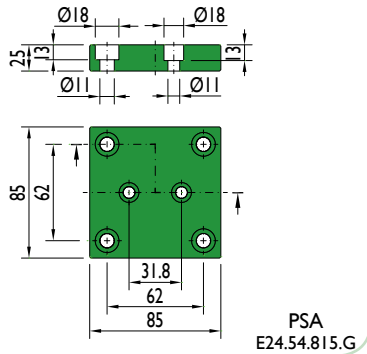
BNE-1000



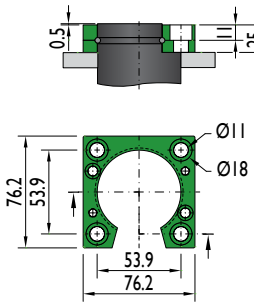
BNI-1000



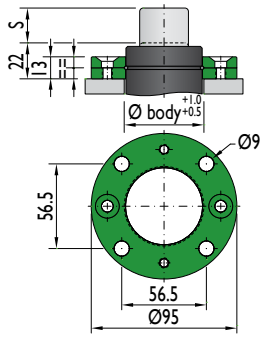
BFP-1000



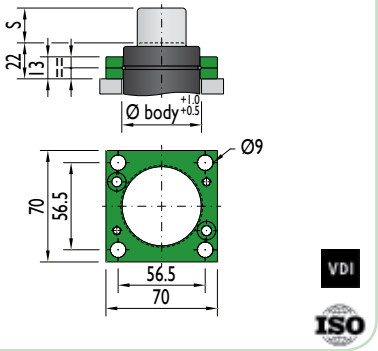
XN-1000



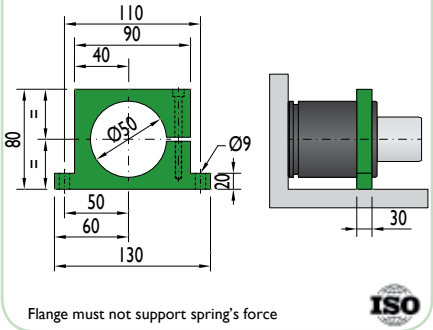
XS-750



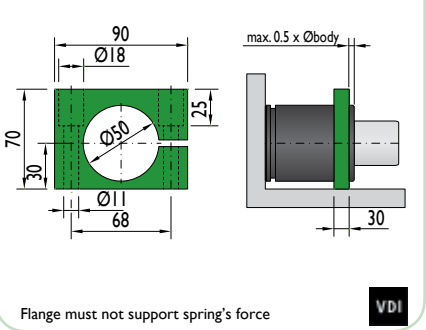
XC-750



CS-750

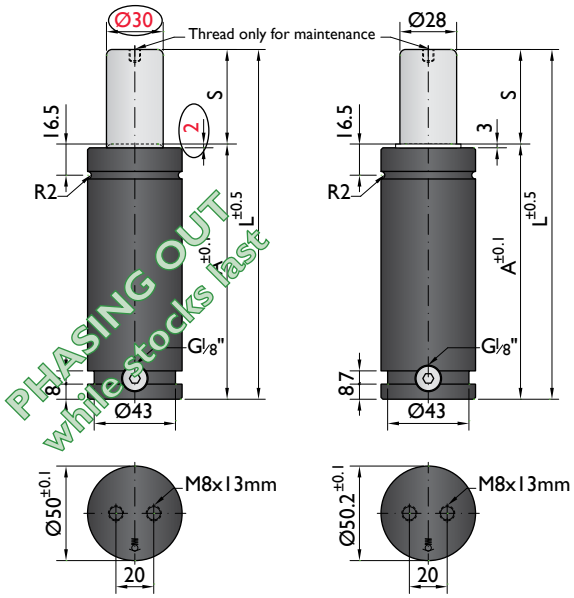


CF-750

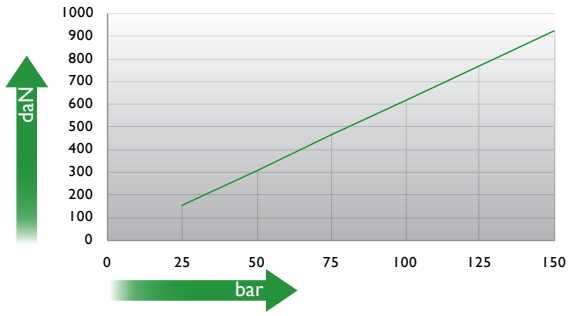


*The new cylinder will be supplied when the stock runs out.

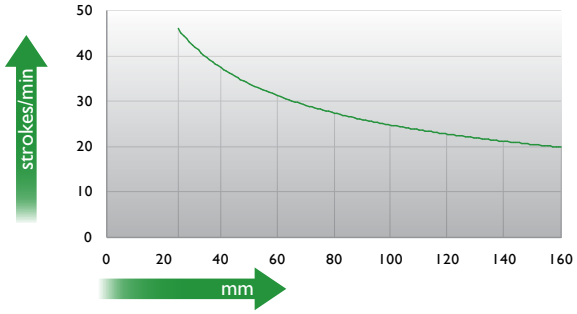
NEW MODEL*



Force / Pressure



Max. strokes / minutes



Ordering example: 4 x M-1000-125

Order No.	S (1) mm	L mm	A mm	F_0 (2) daN (20°C,150 bar)	F daN	(3)	kg
M-1000-25	25	135	110	920	1300	No	1.18
M-1000-38	38	161	123		1400	No	1.30
M-1000-50	50	185	135		1400	No	1.43
M-1000-63	63	211	148		1500	No	1.55
M-1000-80	80	245	165		1500	Yes	1.92
M-1000-100	100	295	195		1500	Yes	2.17
M-1000-125	125	345	220		1600	Yes	2.40
M-1000-160	160	415	255		1600	Yes	2.79

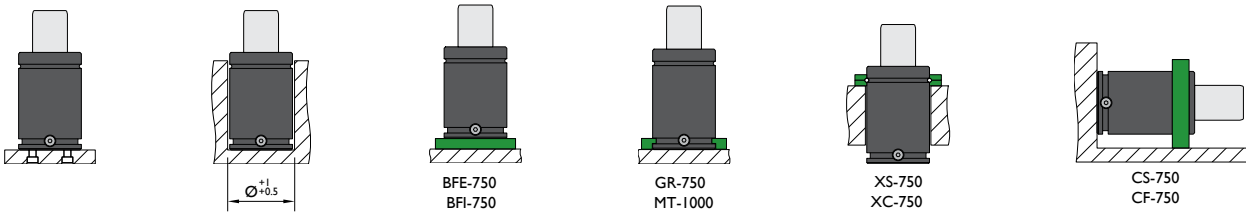
(1) other strokes under request

(2) alternative forces upon request

(3) ESK available for other strokes

Pressure medium	N_2	Working temperature	0-80°C	Min. security stroke	10%
Max. Charging pressure	140 bar	Temperature related force increase	+0.34%/°C	Repair Kit	KIT M-1000
Min. Charging pressure	25 bar	Max. working speed	1.6 m/s	Linkable	G1/8"

Mounting possibilities

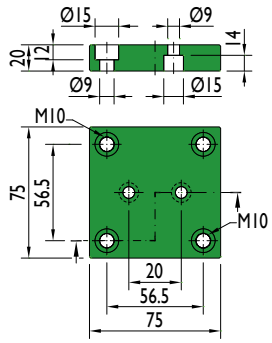


Flange must not support spring's force

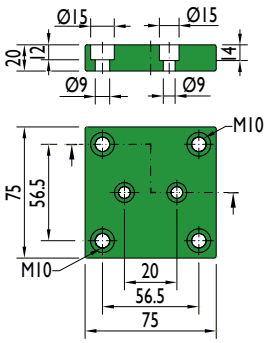
NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

Flanges

BFE-750

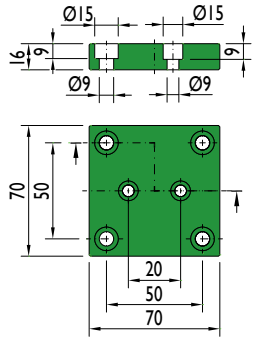


BFI-750

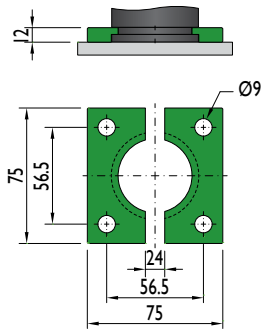


ISO

MC-1000



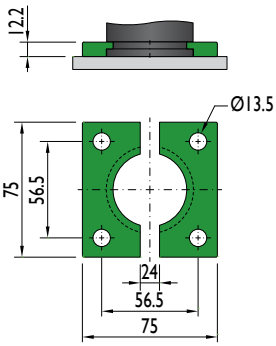
GR-750



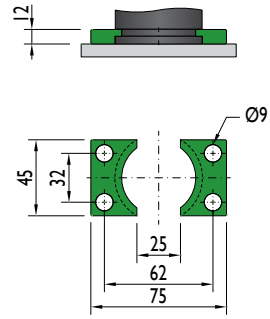
VDI

ISO

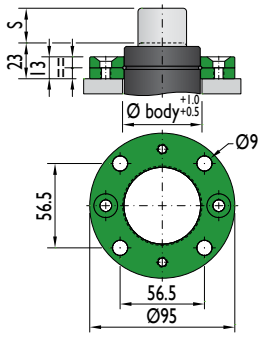
MT-1000



AR-750

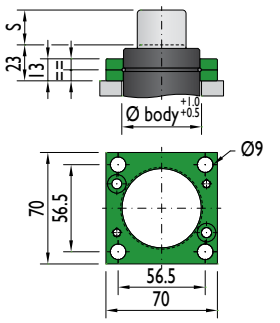


XS-750



ISO

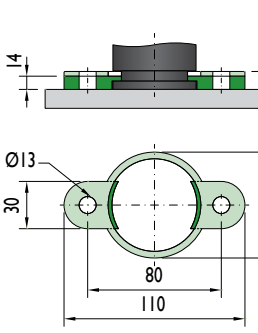
XC-750



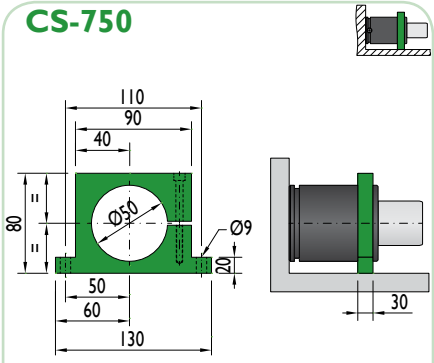
VDI

ISO

PR-750



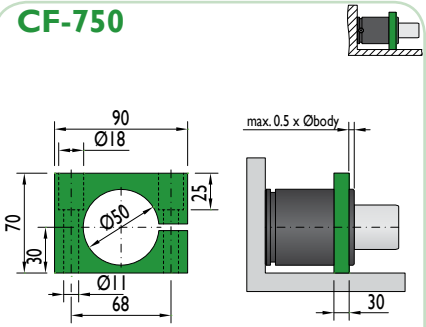
CS-750



Flange must not support spring's force

ISO

CF-750



Flange must not support spring's force

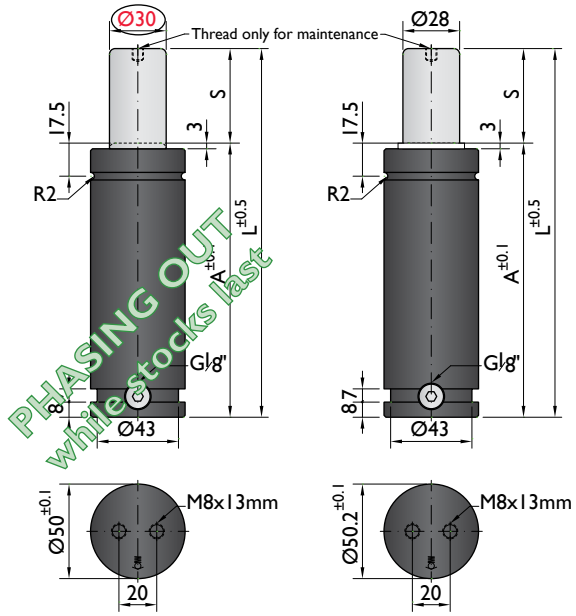
VDI

Special mounts available on

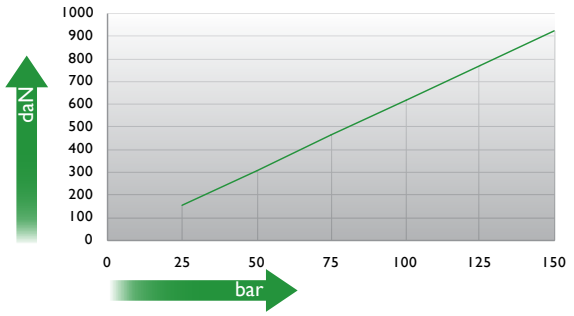
www.nitrogas.com

*The new cylinder will be supplied when the stock runs out.

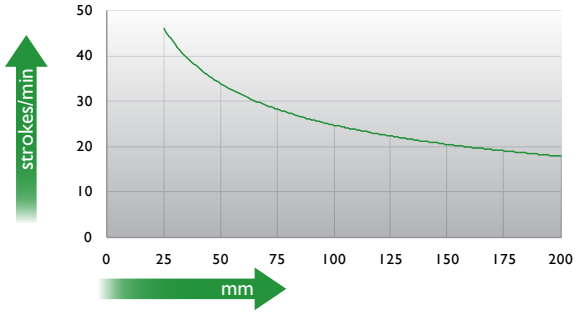
NEW MODEL*



Force / Pressure



Max. strokes / minutes



Ordering example: 4 x HD-1000-125

Order No.	S (1) mm	L mm	A mm	F_0 (2) daN (20°C,150 bar)	F daN	(3)	kg
HD-1000-25	25	145	120		1300	No	1.24
HD-1000-38	38	171	133		1400	No	1.35
HD-1000-50	50	195	145		1400	No	1.67
HD-1000-63	63	221	158		1500	No	1.78
HD-1000-80	80	255	175		1500	Yes	1.92
HD-1000-100	100	295	195	920	1500	Yes	2.06
HD-1000-125	125	345	220		1600	Yes	2.27
HD-1000-160	160	415	255		1700	Yes	2.69
HD-1000-200	200	495	295		1700	Yes	3.13
HD-1000-250	250	595	345		1800	Yes	3.56
HD-1000-300	300	695	395		1800	Yes	3.98

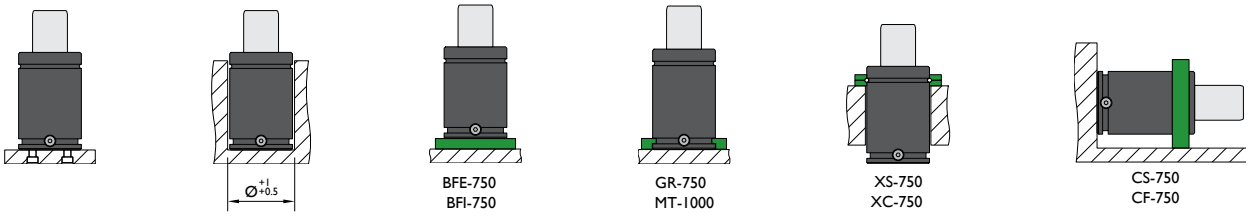
(1) other strokes under request

(2) alternative forces upon request

(3) ESK available for other strokes

Pressure medium	N_2	Working temperature	0-80°C	Min. security stroke	10%
Max. Charging pressure	150 bar	Temperature related force increase	+0.34%/°C	Repair Kit	KIT HD-1000
Min. Charging pressure	25 bar	Max. working speed	1.6 m/s	Linkable	G1/8"

Mounting possibilities

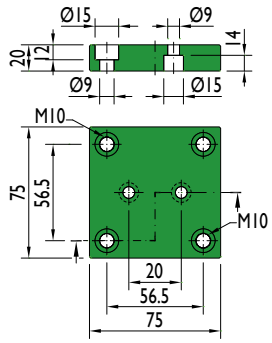


Flange must not support spring's force

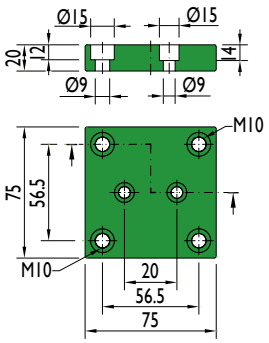
NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

Flanges

BFE-750

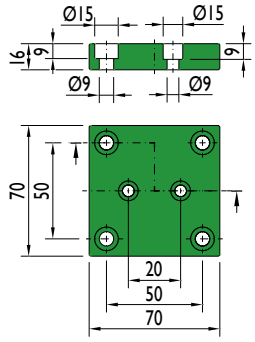


BFI-750

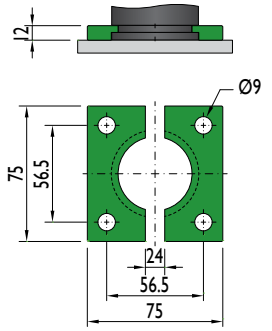


ISO

MC-1000



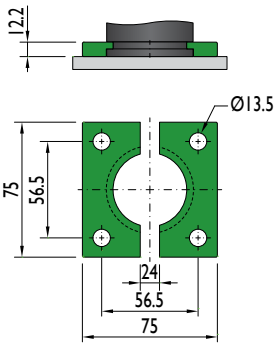
GR-750



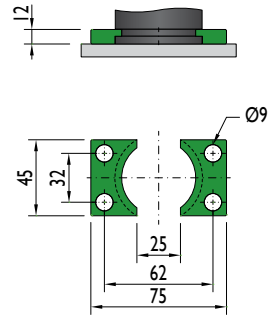
VDI

ISO

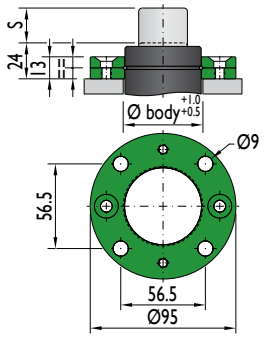
MT-1000



AR-750

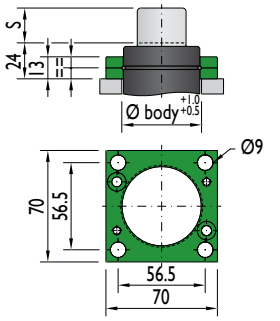


XS-750



ISO

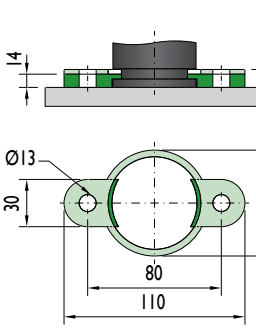
XC-750



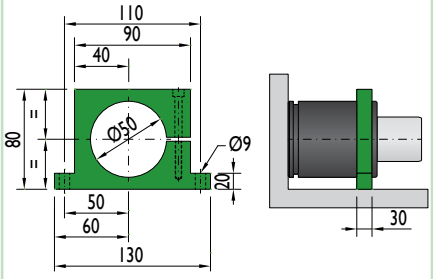
VDI

ISO

PR-750



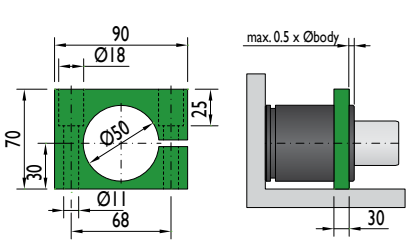
CS-750



Flange must not support spring's force

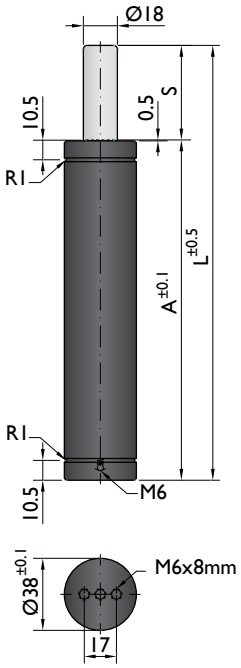
ISO

CF-750

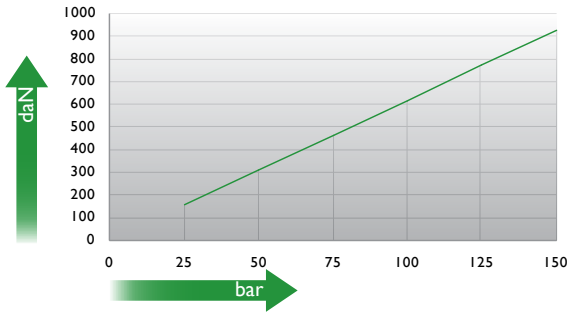


Flange must not support spring's force

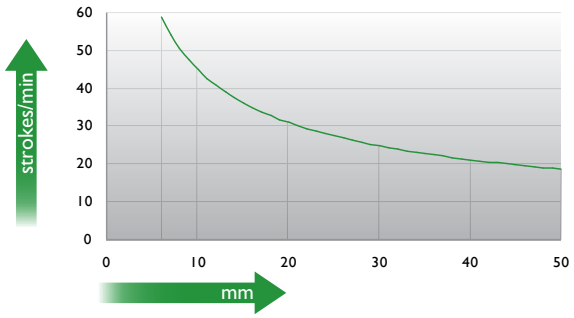
VDI



Force / Pressure



Max. strokes / minutes



Ordering example: 4 x T-1000-50

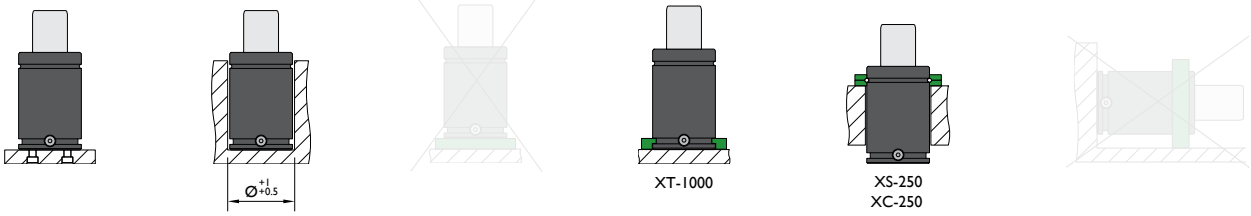
Order No.	S (1) mm	L mm	A mm	F_0 (2) daN (20°C,150 bar)	F daN		kg
T-1000-6	6	61	55		1300	No	0.36
T-1000-10	10	78	68		1500	No	0.44
T-1000-16	16	100	84		1400	No	0.52
T-1000-25	25	135	110	920	1400	No	0.63
T-1000-32	32	167	135		1400	No	0.73
T-1000-40	40	195	155		1400	No	0.81
T-1000-50	50	230	180		1400	No	0.98

(1) other strokes under request

(2) alternative forces upon request

Pressure medium	N_2	Working temperature	0-80°C	Min. security stroke	10%
Max. Charging pressure	150 bar	Temperature related force increase	+0.34%/°C	Repair Kit	KIT T-1000
Min. Charging pressure	25 bar	Max. working speed	0.5 m/s	Linkable	No

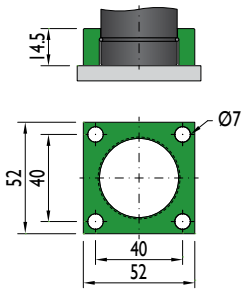
Mounting possibilities



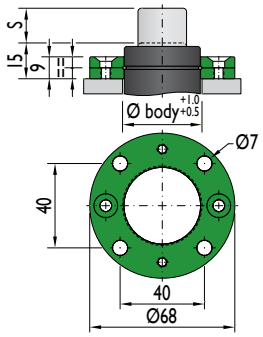
NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

Flanges

XT-1000

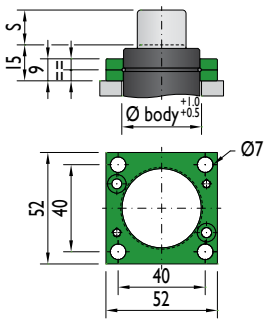


XS-250



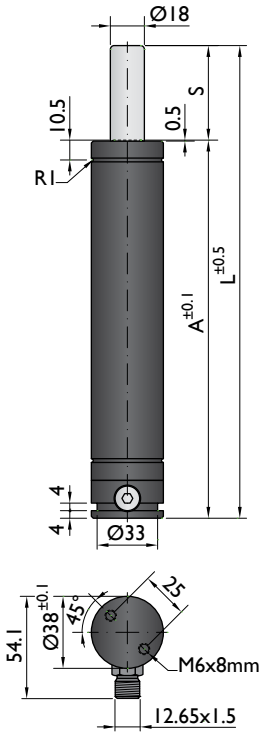
ISO

XC-250

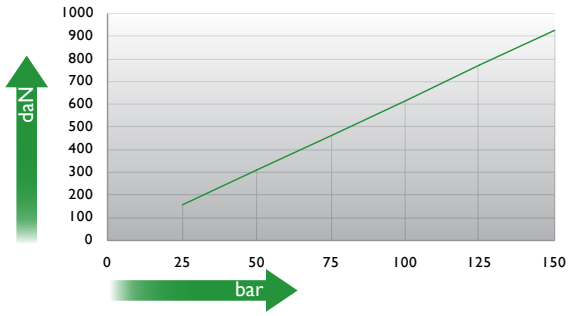


VDI

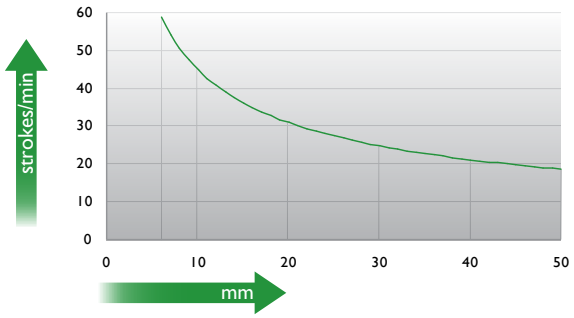
ISO



Force / Pressure



Max. strokes / minutes



Ordering example: 4 x TC-1000-50

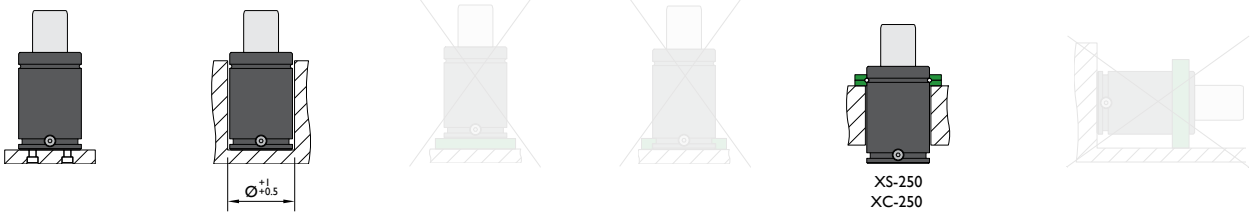
Order No.	S (1) mm	L mm	A mm	F_0 (2) daN (20°C,150 bar)	F daN		kg
TC-1000-6	6	81	75		1300	No	0.50
TC-1000-10	10	98	88		1500	No	0.58
TC-1000-16	16	120	104		1400	No	0.66
TC-1000-25	25	155	130	920	1400	No	0.77
TC-1000-32	32	187	155		1400	No	0.87
TC-1000-40	40	215	175		1400	No	0.95
TC-1000-50	50	250	200		1400	No	1.12

(1) other strokes under request

(2) alternative forces upon request

Pressure medium	N_2	Working temperature	0-80°C	Min. security stroke	10%
Max. Charging pressure	150 bar	Temperature related force increase	+0.34%/°C	Repair Kit	KIT TC-1000
Min. Charging pressure	25 bar	Max. working speed	0.5 m/s	Linkable	G1/8"

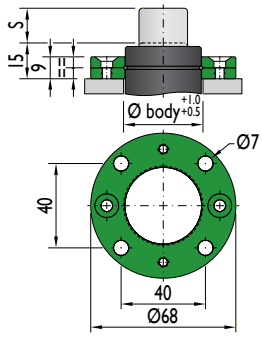
Mounting possibilities



NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

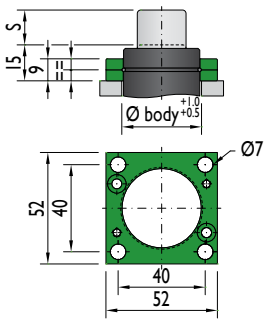
Flanges

XS-250



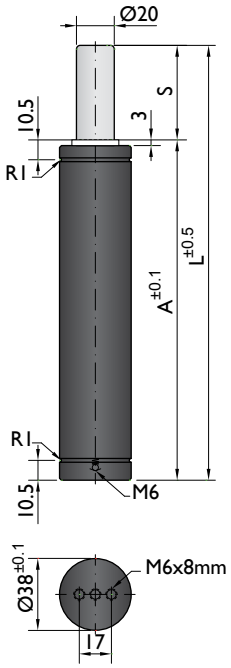
ISO

XC-250

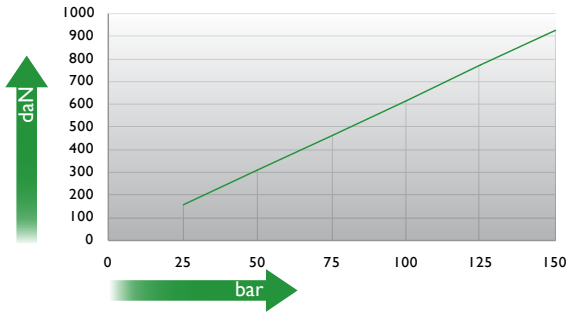


VDI

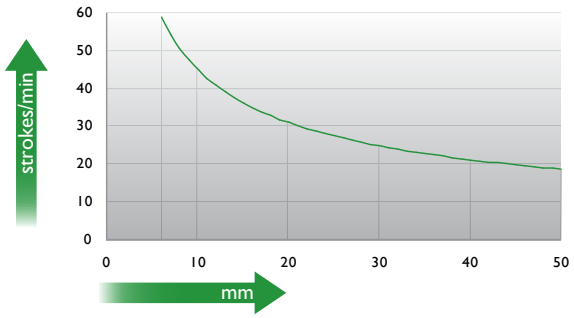
ISO



Force / Pressure



Max. strokes / minutes



Ordering example: 4 x TS-1000-50

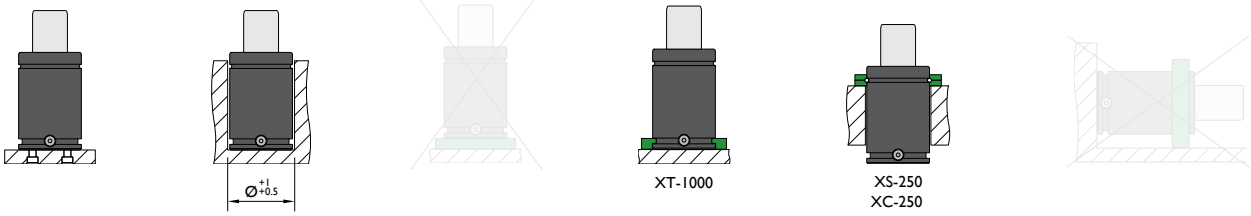
Order No.	S (1) mm	L mm	A mm	F_0 (2) daN (20°C,150 bar)	F daN		kg
TS-1000-6	6	61	55		1300	No	0.36
TS-1000-10	10	78	68		1500	No	0.44
TS-1000-16	16	100	84		1400	No	0.52
TS-1000-25	25	135	110	920	1400	No	0.63
TS-1000-32	32	167	135		1400	No	0.73
TS-1000-40	40	195	155		1400	No	0.81
TS-1000-50	50	230	180		1400	No	0.98

(1) other strokes under request

(2) alternative forces upon request

Pressure medium	N_2	Working temperature	0-80°C	Min. security stroke	10%
Max. Charging pressure	150 bar	Temperature related force increase	+0.34%/°C	Repair Kit	KIT TS-1000
Min. Charging pressure	25 bar	Max. working speed	0.5 m/s	Linkable	No

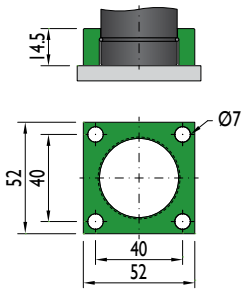
Mounting possibilities



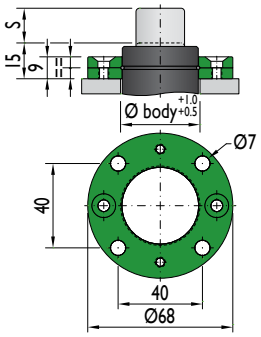
NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

Flanges

XT-1000

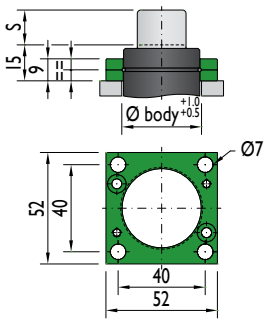


XS-250



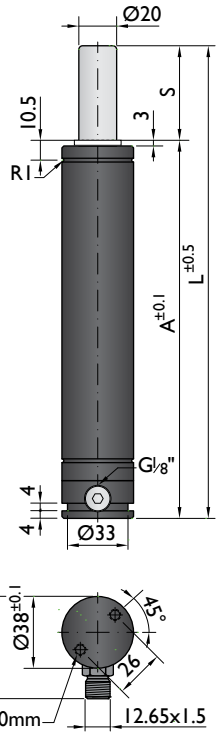
ISO

XC-250

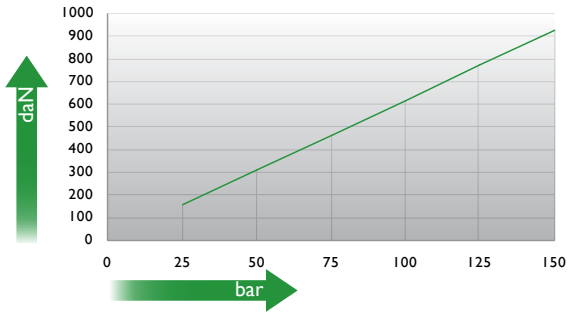


VDI

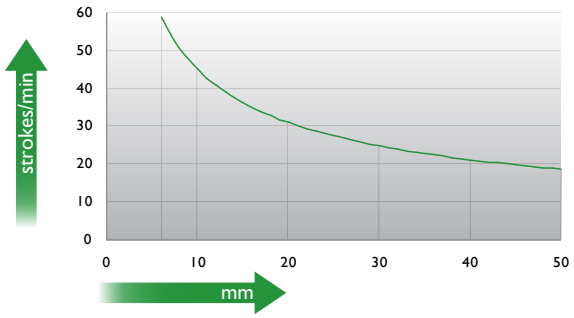
ISO



Force / Pressure



Max. strokes / minutes



Ordering example: 4 x TSC-1000-50

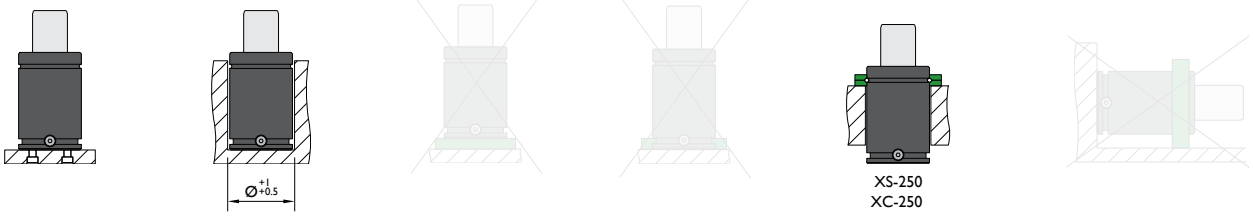
Order No.	S (1) mm	L mm	A mm	F_0 (2) daN (20°C,150 bar)	F daN		kg
TSC-1000-6	6	81	75		1300	No	0.50
TSC-1000-10	10	98	88		1500	No	0.58
TSC-1000-16	16	120	104		1400	No	0.66
TSC-1000-25	25	155	130	920	1400	No	0.77
TSC-1000-32	32	187	155		1400	No	0.87
TSC-1000-40	40	215	175		1400	No	0.95
TSC-1000-50	50	250	200		1400	No	1.12

(1) other strokes under request

(2) alternative forces upon request

Pressure medium	N_2	Working temperature	0-80°C	Min. security stroke	10%
Max. Charging pressure	150 bar	Temperature related force increase	+0.34%/°C	Repair Kit	KIT TSC-1000
Min. Charging pressure	25 bar	Max. working speed	0.5 m/s	Linkable	G1/8"

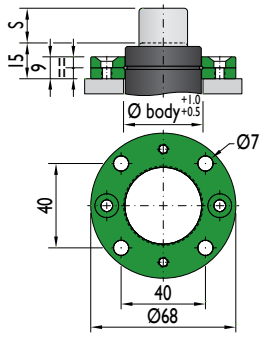
Mounting possibilities



NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

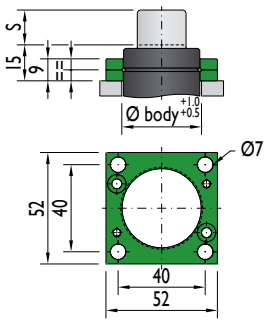
Flanges

XS-250



ISO

XC-250

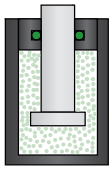


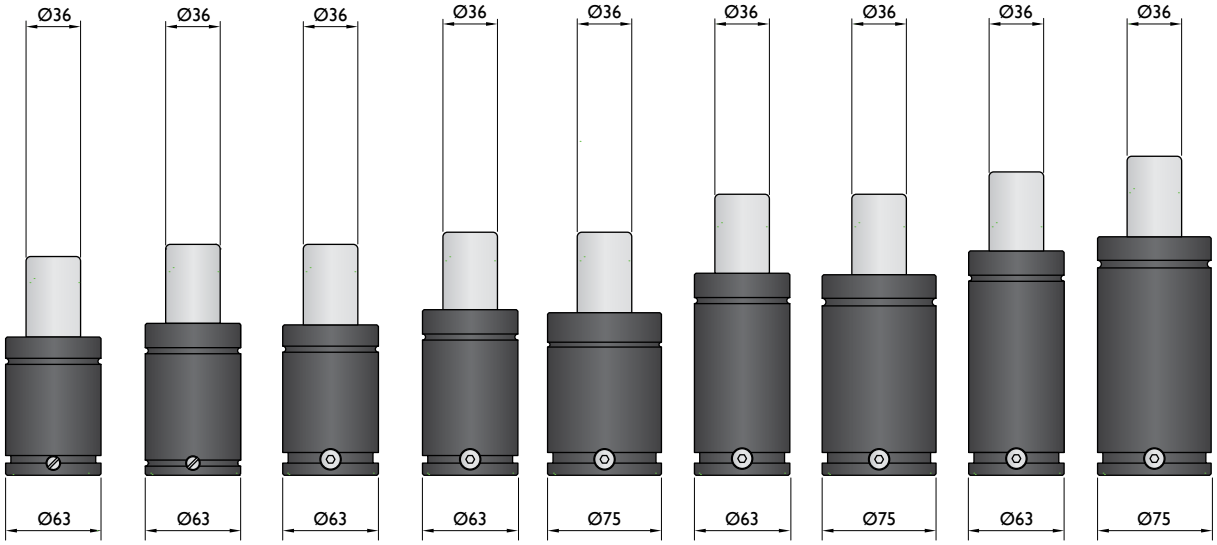
VDI

ISO

Force 1500 daN

Piston Rod Sealed gas springs





Model	KP-1500	KC-1500	NR-1500	K-1500	KH-1500	M-1500	HG-1500	HD-1500	G-1500
Initial F (daN)	1500	1500	1500	1500	1500	1500	1500	1500	1500
L max (mm)	2xStroke+44	2xStroke+52	2xStroke+52	2xStroke+60	2xStroke+60	2xStroke+85	2xStroke+85	2xStroke+95	2xStroke+110
Stroke (mm)	13-125	12-125	13-125	12-125	25-125	25-160	25-200	25-300	25-300

* other strokes under request

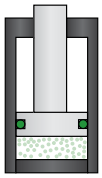
Standards

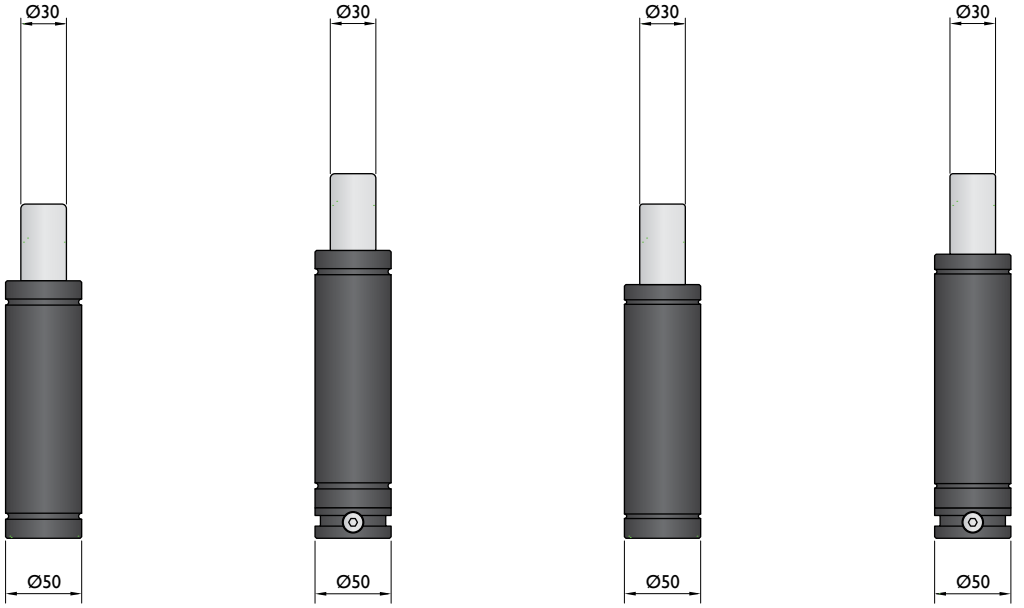
PED 2014/68/EU	**PED** 2014/68/EU	**PED** 2014/68/EU	**PED** 2014/68/EU	**PED** 2014/68/EU	**PED** 2014/68/EU	**PED** 2014/68/EU	**PED** 2014/68/EU	**PED** 2014/68/EU
ISO 11901	ISO 11901	ISO 11901	ISO 11901	ISO 11901	ISO 11901	ISO 11901	ISO 11901	**ISO** 11901
VDI 3003	VDI 3003	VDI 3003	VDI 3003	VDI 3003	VDI 3003	VDI 3003	VDI 3003	**VDI** 3003
CNOMO EM24.54.700	CNOMO EM24.54.700	CNOMO EM24.54.700	CNOMO EM24.54.700	**CNOMO** EM24.54.700	CNOMO EM24.54.700	CNOMO EM24.54.700	CNOMO EM24.54.700	**CNOMO** EM24.54.700

NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

Force 1500 daN

Bore Sealed gas springs





	T-1800	TC-1800	TS-1800	TSC-1800
Model				
Initial F (daN)	1800	1800	1800	1800
L max (mm)	66-220	86-240	66-271	86-291
Stroke (mm)	6-50	6-50	6-65	6-65

* other strokes under request

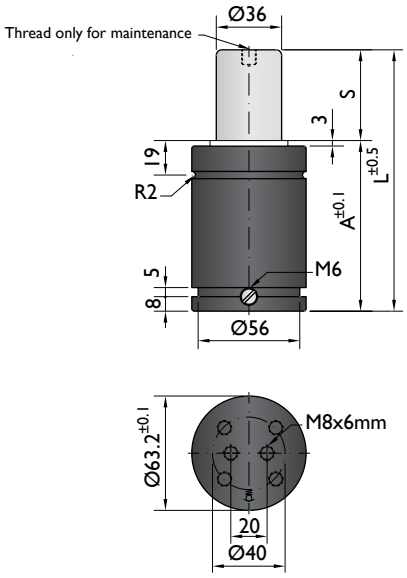
Standards

PED 2014/68/EU	**PED** 2014/68/EU	**PED** 2014/68/EU	**PED** 2014/68/EU
ISO 11901	ISO 11901	ISO 11901	ISO 11901
VDI 3003	VDI 3003	VDI 3003	VDI 3003
CNOMO EM24.54.700	CNOMO EM24.54.700	CNOMO EM24.54.700	CNOMO EM24.54.700

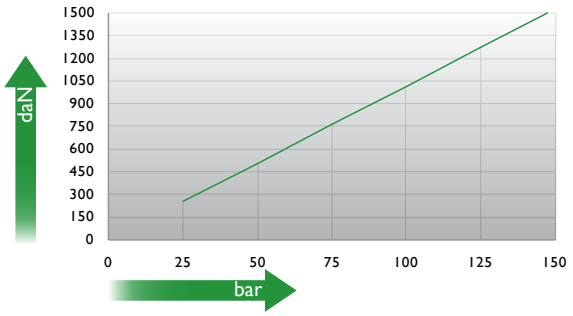
KP-1500

Low Profile - High Force

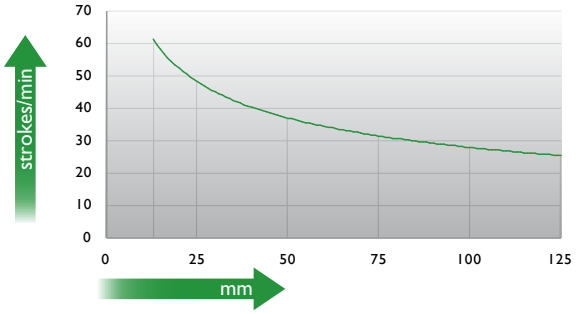
*The new cylinder will be supplied when the stock runs out.



Force / Pressure



Max. strokes / minutes



Ordering example: 4 x KP-1500-125

Order No.	S (1) mm	L mm	A mm	F_0 (2) daN (20°C,150 bar)	F daN	(3)	kg
KP-1500-13	13	70	57	1500	2200	No	0.94
KP-1500-16	16	76	60		2200	No	1.01
KP-1500-19	19	82	63		2200	No	1.06
KP-1500-25	25	94	69		2200	No	1.16
KP-1500-32	32	108	76		2300	No	1.27
KP-1500-38	38	120	82		2300	No	1.37
KP-1500-50	50	144	94		2400	Yes	1.57
KP-1500-63	63	170	107		2400	Yes	1.78
KP-1500-75	75	194	119		2400	Yes	1.98
KP-1500-80	80	204	124		2400	Yes	2.06
KP-1500-100	100	244	144		2400	Yes	2.37
KP-1500-125	125	294	169		2400	Yes	2.80

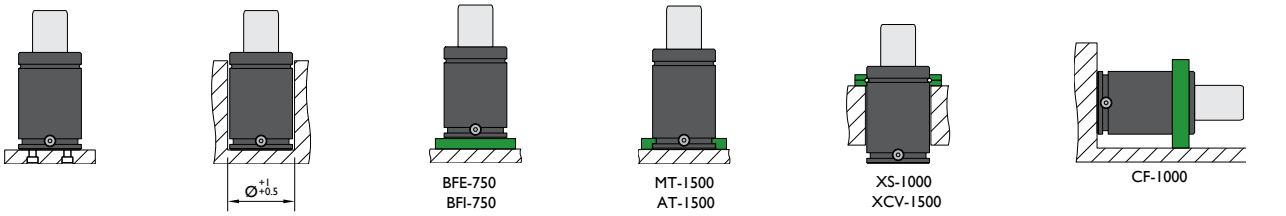
(1) other strokes under request

(2) alternative forces upon request

(3) ESK available for other strokes

Pressure medium	N_2	Working temperature	0-80°C	Min. security stroke	10%
Max. Charging pressure	150 bar	Temperature related force increase	+0.34%/°C	Repair Kit	KIT KP-1500
Min. Charging pressure	25 bar	Max. working speed	1.6 m/s	Linkable	M6

Mounting possibilities

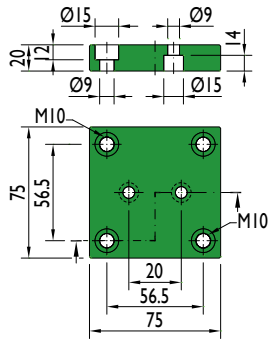


Flange must not support spring's force

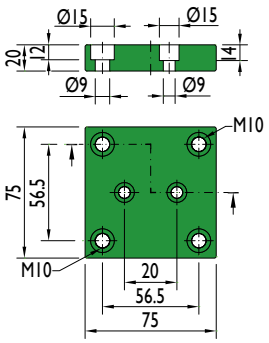
NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

Flanges

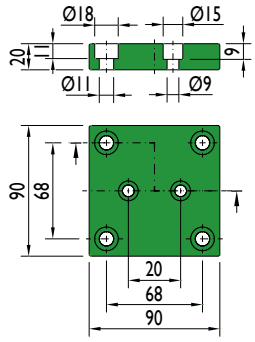
BFE-750



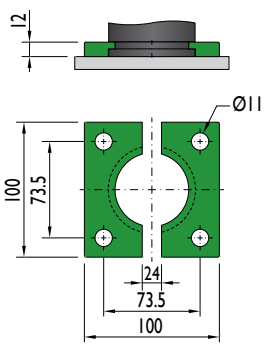
BFI-750



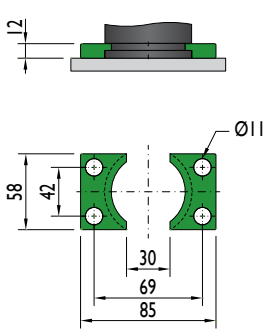
MC-1500



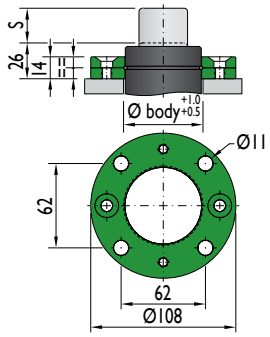
MT-1500



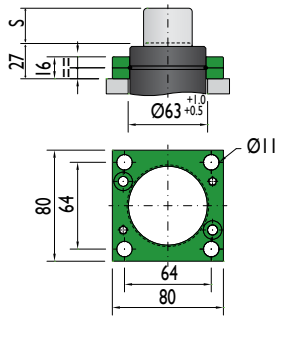
AT-1500



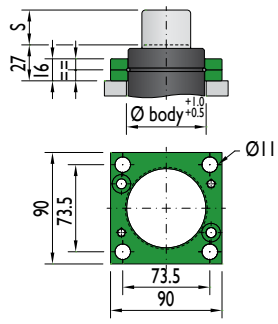
XS-1000



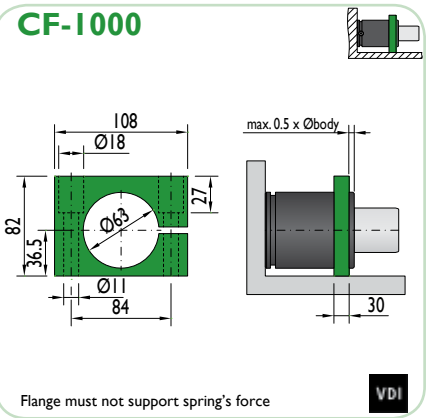
XCV-1500



XCK-1500

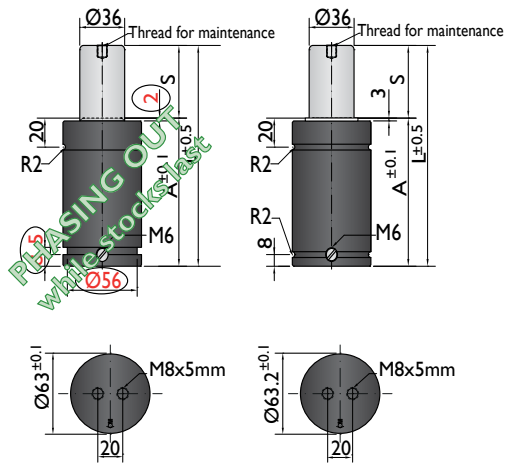


CF-1000

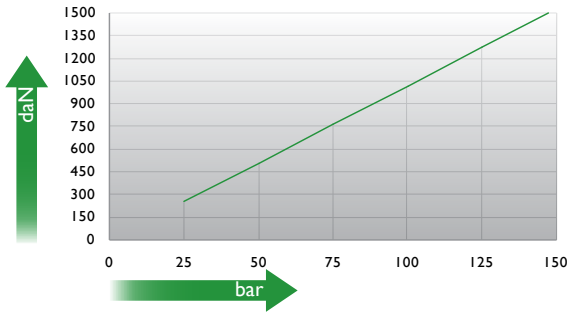


*The new cylinder will be supplied when the stock runs out.

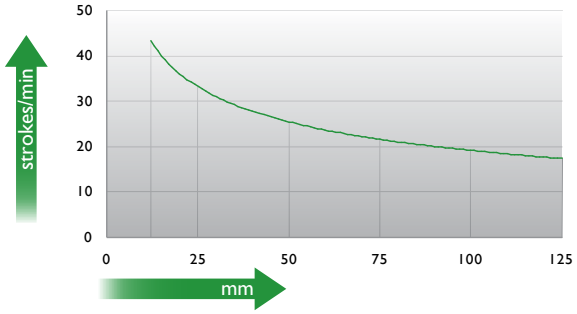
NEW MODEL*



Force / Pressure



Max. strokes / minutes



Ordering example: 4 x KC-1500-125

Order No.	S (1) mm	L mm	A mm	F_0 (2) daN (20°C,150 bar)	F daN	(3)	kg
KC-1500-12	12	76	64	1500	1800	No	1.02
KC-1500-25	25	102	77		2400	No	1.24
KC-1500-38	38	128	90		2500	No	1.45
KC-1500-50	50	152	102		2600	Yes	1.65
KC-1500-63	63	178	115		2700	Yes	1.86
KC-1500-80	80	212	132		2700	Yes	2.14
KC-1500-100	100	252	152		2700	Yes	2.45
KC-1500-125	125	302	177		2700	Yes	2.88

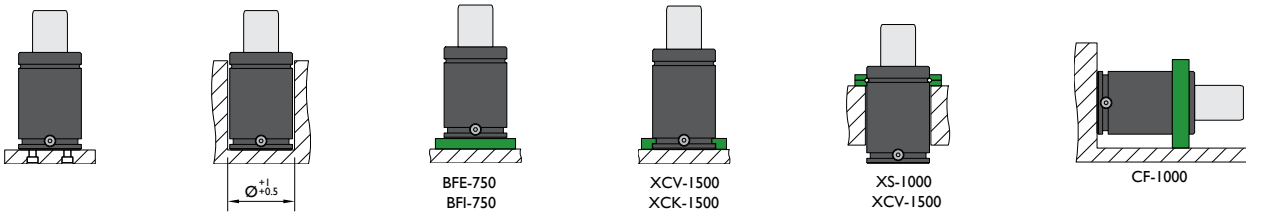
(1) other strokes under request

(2) alternative forces upon request

(3) ESK available for other strokes

Pressure medium	N_2	Working temperature	0-80°C	Min. security stroke	10%
Max. Charging pressure	150 bar	Temperature related force increase	+0.34%/°C	Repair Kit	KIT KC-1500
Min. Charging pressure	25 bar	Max. working speed	1.6 m/s	Linkable	M6

Mounting possibilities

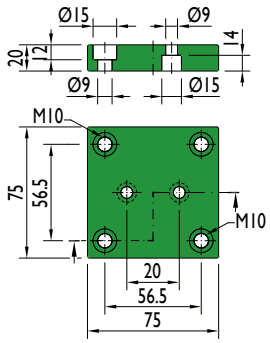


Flange must not support spring's force

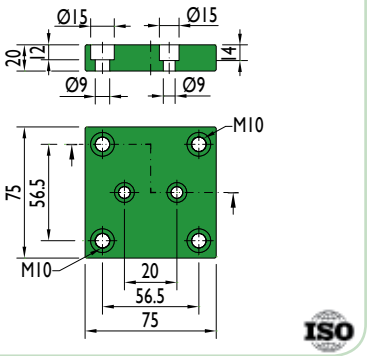
NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

Flanges

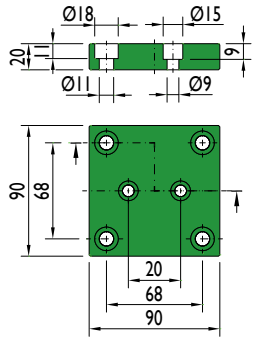
BFE-750



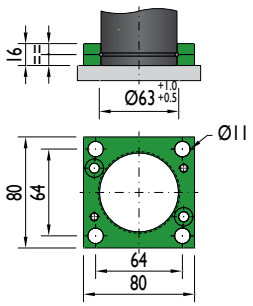
BFI-750



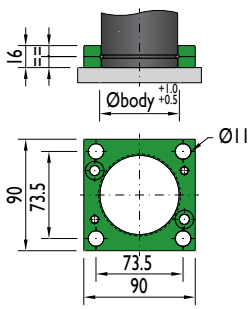
MC-1500



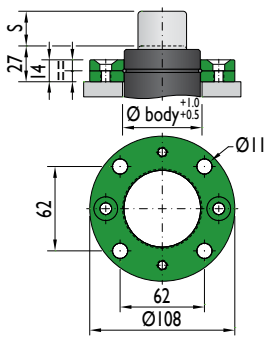
XCV-1500



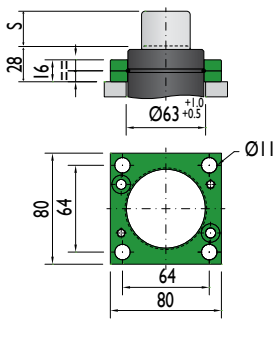
XCK-1500



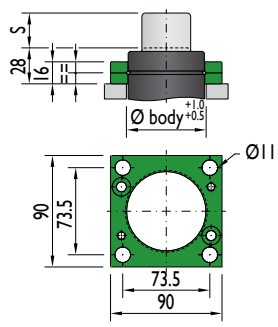
XS-1000



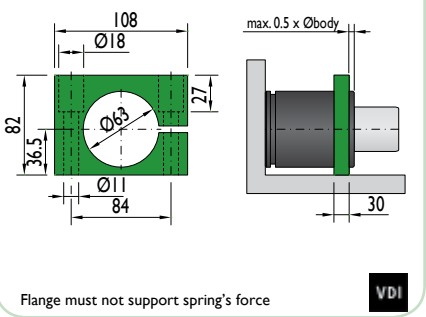
XCV-1500



XCK-1500



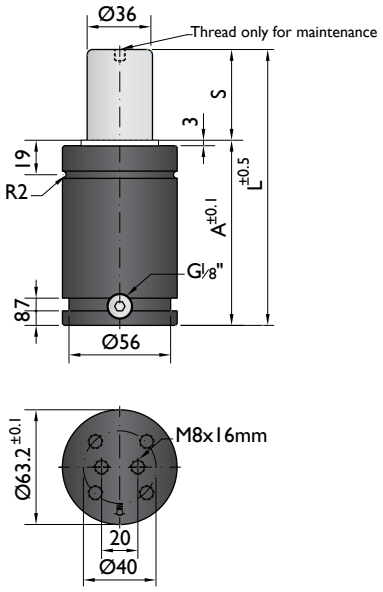
CF-1000



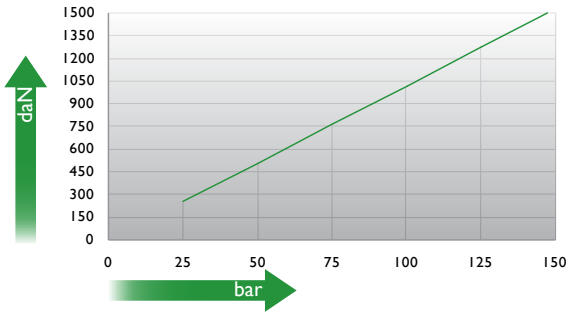
NITROGAS

NR-1500

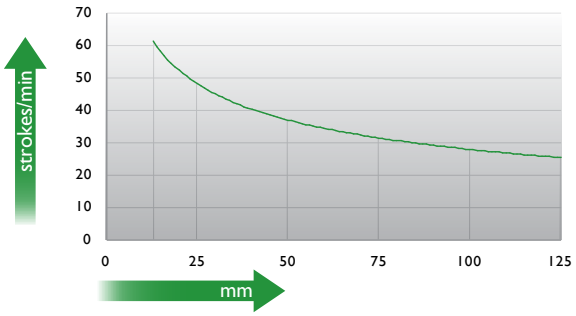
Low Profile - High Force



Force / Pressure



Max. strokes / minutes



Ordering example: 4 x NR-1500-125

Order No.	S (1) mm	L mm	A mm	F_0 (2) daN (20°C,150 bar)	F daN	(3)	kg
NR-1500-13	13	78	65	1500	2100	No	0.97
NR-1500-16	16	84	68		2200	No	1.04
NR-1500-19	19	90	71		2200	No	1.09
NR-1500-25	25	102	77		2200	No	1.09
NR-1500-32	32	116	84		2300	No	1.30
NR-1500-38	38	128	90		2300	No	1.40
NR-1500-50	50	152	102		2400	Yes	1.60
NR-1500-63	63	178	115		2400	Yes	1.81
NR-1500-75	75	202	127		2400	Yes	2.01
NR-1500-80	80	212	132		2400	Yes	2.09
NR-1500-100	100	252	152		2400	Yes	2.40
NR-1500-125	125	302	177		2400	Yes	2.83

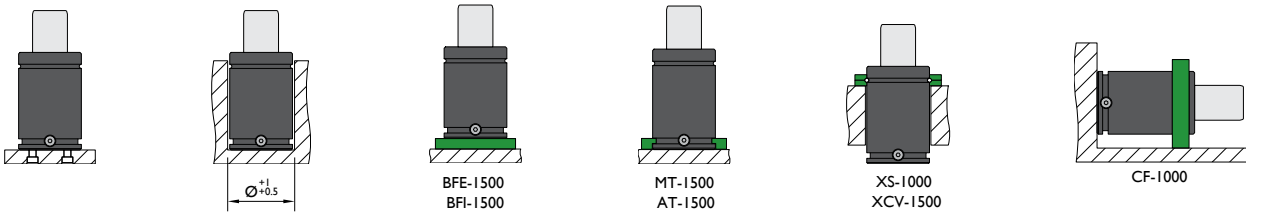
(1) other strokes under request

(2) alternative forces upon request

(3) ESK available for other strokes

Pressure medium	N_2	Working temperature	0-80°C	Min. security stroke	10%
Max. Charging pressure	150 bar	Temperature related force increase	+0.34%/°C	Repair Kit	KIT NR-1500
Min. Charging pressure	25 bar	Max. working speed	1.6 m/s	Linkable	G1/8"

Mounting possibilities

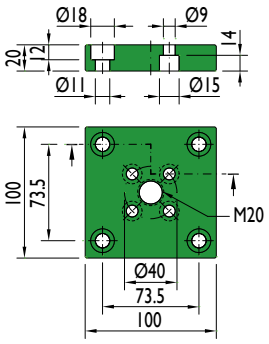


Flange must not support spring's force

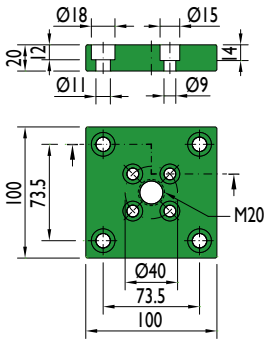
NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

Flanges

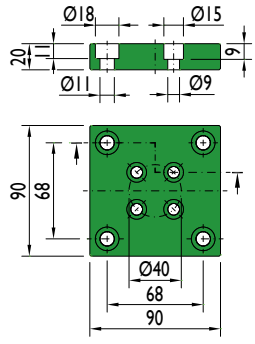
BFE-1500



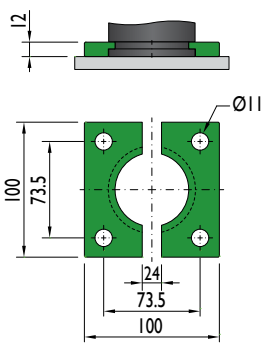
BFI-1500



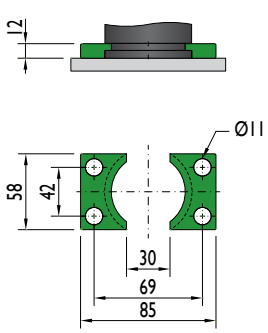
MC-2500



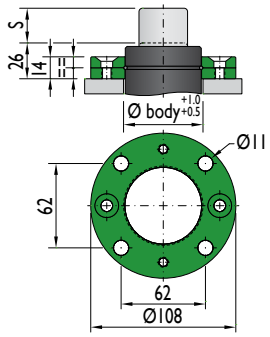
MT-1500



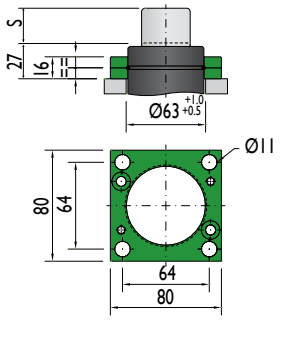
AT-1500



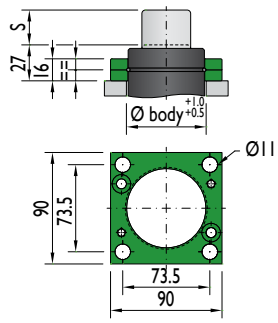
XS-1000



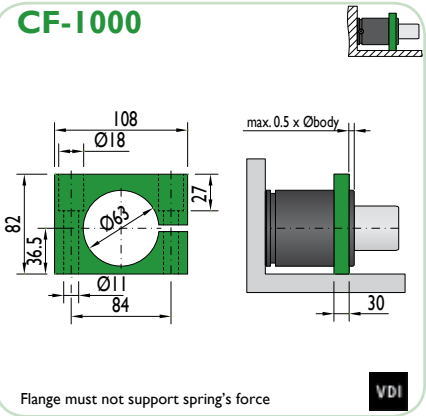
XCV-1500



XCK-1500

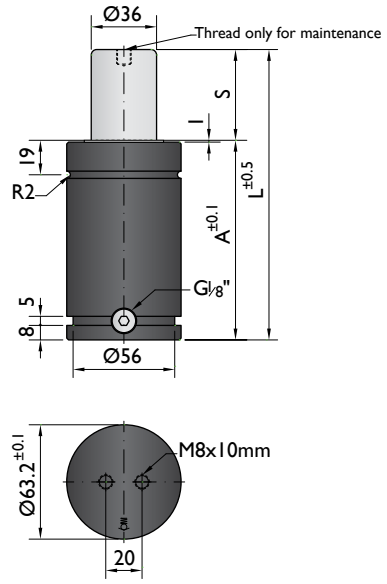


CF-1000

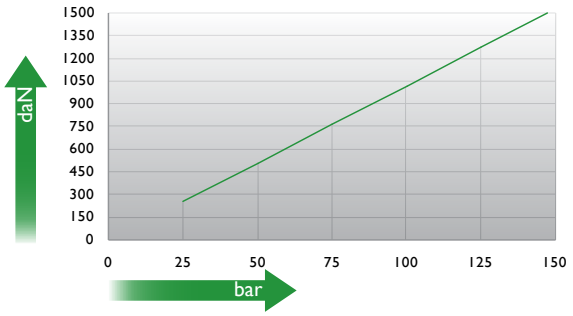


K-1500

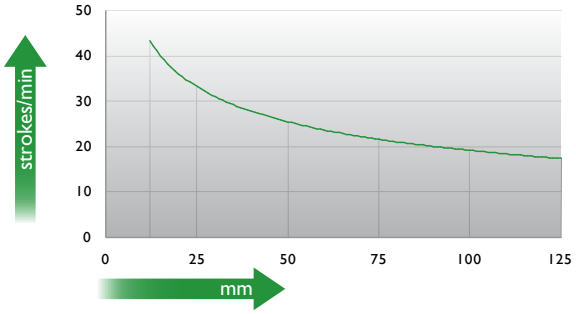
Low Profile - High Force



Force / Pressure



Max. strokes / minutes



Ordering example: 4 x K-1500-125

Order No.	S (1) mm	L mm	A mm	F_0 (2) daN (20°C,150 bar)	F daN	(3)	kg
K-1500-12	12	84	72	1500	2100	No	1.32
K-1500-25	25	110	85		2300	No	1.49
K-1500-38	38	136	98		2500	No	1.60
K-1500-50	50	160	110		2600	Yes	1.85
K-1500-63	63	186	123		2600	Yes	2.01
K-1500-80	80	220	140		2600	Yes	2.27
K-1500-100	100	260	160		2600	Yes	2.60
K-1500-125	125	310	185		2600	Yes	3.04

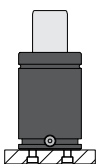
(1) other strokes under request

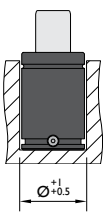
(2) alternative forces upon request

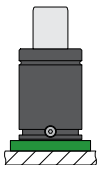
(3) ESK available for other strokes

Pressure medium	N_2	Working temperature	0-80°C	Min. security stroke	10%
Max. Charging pressure	150 bar	Temperature related force increase	+0.34%/°C	Repair Kit	KIT K-1500
Min. Charging pressure	25 bar	Max. working speed	1.6 m/s	Linkable	G1/8"

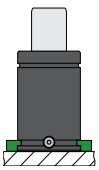
Mounting possibilities



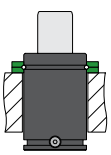




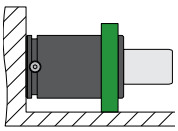
BFE-750
BFI-750
MC-1500



MT-1500
AT-1500



XS-1000
XCV-1500
XCK-1500



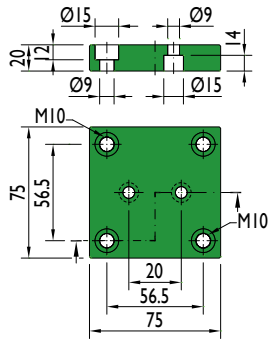
CF-1000

Flange must not support spring's force

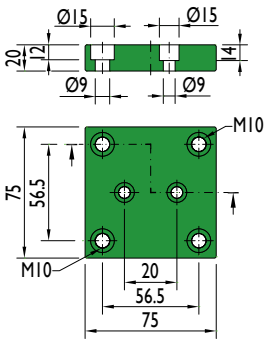
NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

Flanges

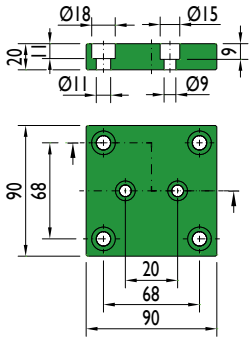
BFE-750



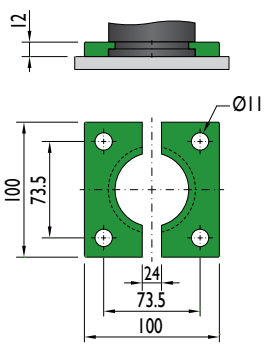
BFI-750



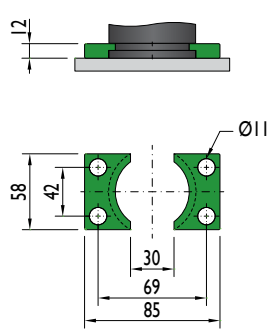
MC-1500



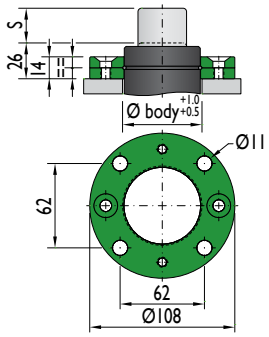
MT-1500



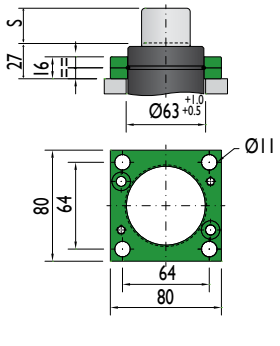
AT-1500



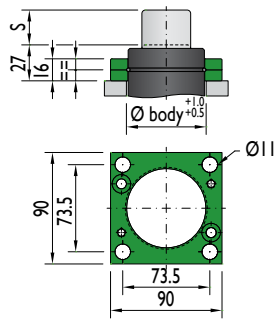
XS-1000



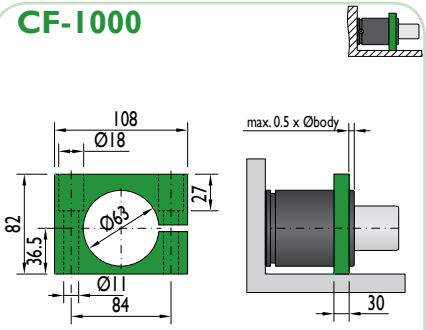
XCV-1500



XCK-1500



CF-1000

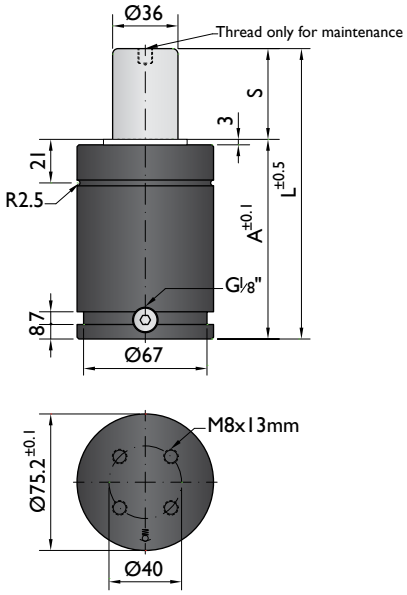


Flange must not support spring's force

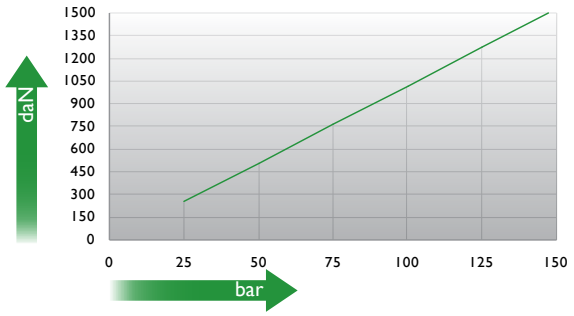
KH-1500

Low Profile - High Force

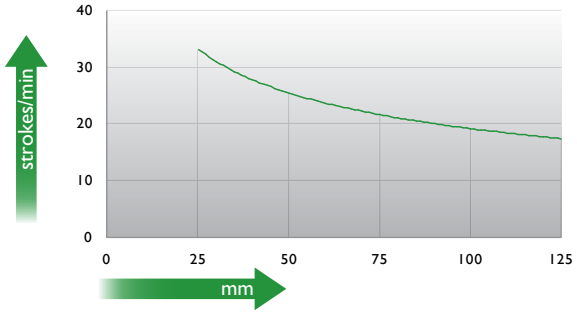
CNOMO
EM24.54.700



Force / Pressure



Max. strokes / minutes



Ordering example: 4 x KH-1500-125

Order No.	S (1) mm	L mm	A mm	F_0 (2) daN (20°C,150 bar)	F daN	(3)	kg
KH-1500-25	25	110	85		2100	No	2.08
KH-1500-38	38.1	136.2	98.1		2200	No	2.33
KH-1500-50	50	160	110		2300	Yes	2.50
KH-1500-63	63.5	187	123.5	1500	2300	Yes	2.73
KH-1500-80	80	220	140		2300	Yes	3.04
KH-1500-100	100	260	160		2300	Yes	3.60
KH-1500-125	125	310	185		2300	Yes	4.75

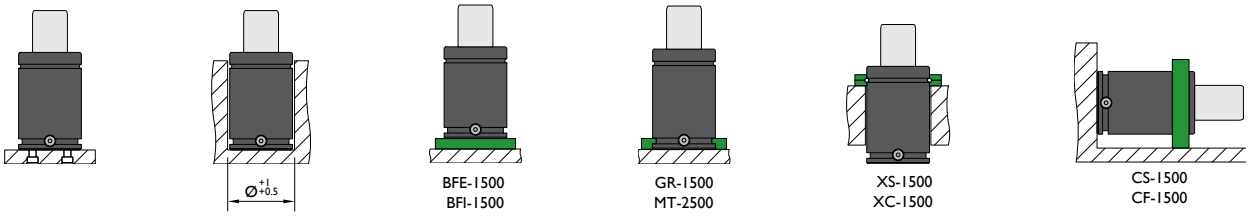
(1) other strokes under request

(2) alternative forces upon request

(3) ESK available for other strokes

Pressure medium	N_2	Working temperature	0-80°C	Min. security stroke	10%
Max. Charging pressure	150 bar	Temperature related force increase	+0.34%/°C	Repair Kit	KIT KH-1500
Min. Charging pressure	25 bar	Max. working speed	1.6 m/s	Linkable	G1/8"

Mounting possibilities

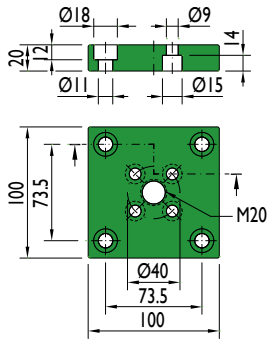


Flange must not support spring's force

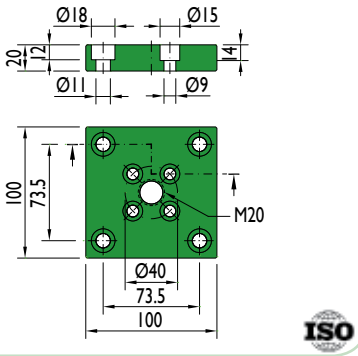
NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

Flanges

BFE-1500

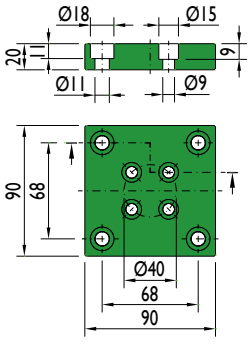


BFI-1500

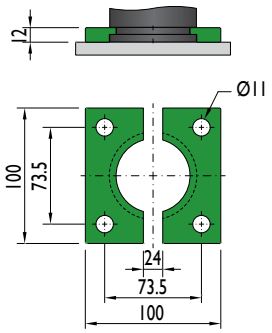


ISO

MC-2500



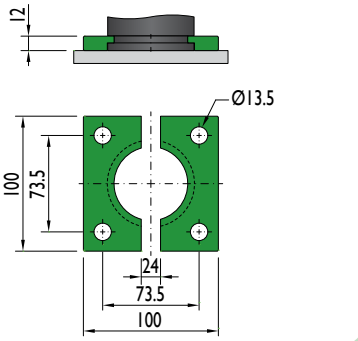
GR-1500



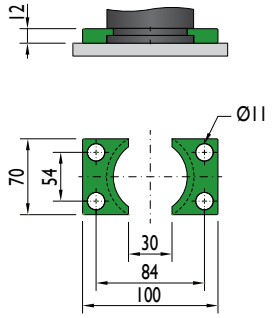
VDI

ISO

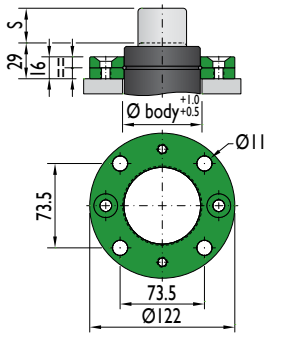
MT-2500



AR-1500

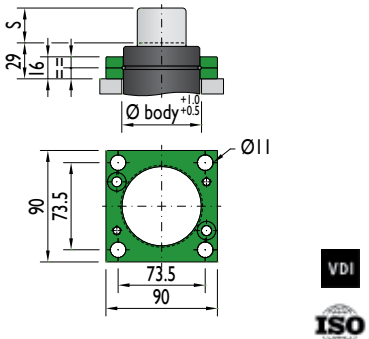


XS-1500



ISO

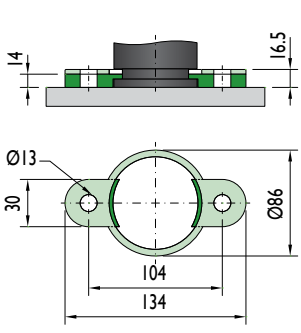
XC-1500



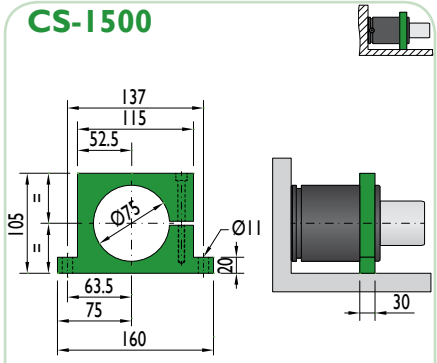
VDI

ISO

PR-1500



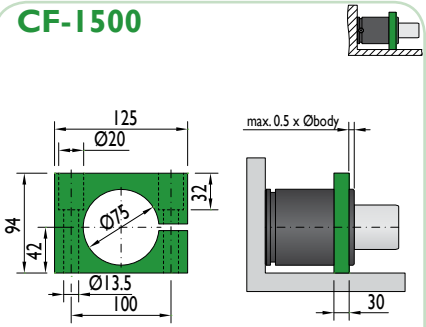
CS-1500



Flange must not support spring's force

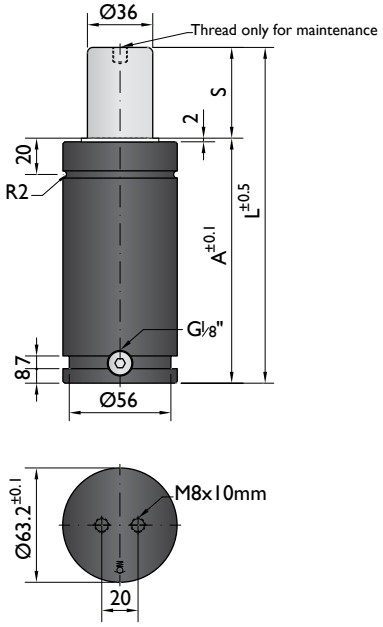
ISO

CF-1500

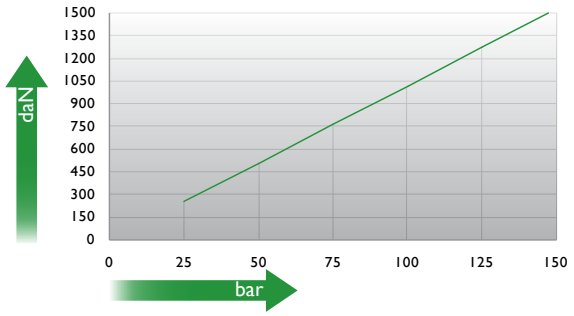


Flange must not support spring's force

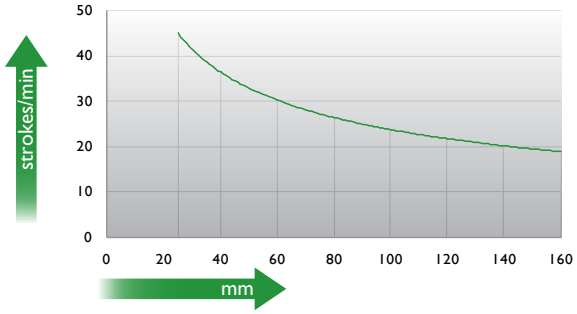
VDI



Force / Pressure



Max. strokes / minutes



Ordering example: 4 x M-1500-125

Order No.	S (1) mm	L mm	A mm	F_0 (2) daN (20°C,150 bar)	F daN	(3)	kg
M-1500-25	25	135	110	1500	2200	No	1.88
M-1500-38	38	161	123		2400	No	2.15
M-1500-50	50	185	135		2400	No	2.25
M-1500-63	63	211	148		2500	No	2.50
M-1500-80	80	245	165		2500	Yes	2.58
M-1500-100	100	285	185		2500	Yes	2.85
M-1500-125	125	345	220		2500	Yes	3.32
M-1500-160	160	415	255		2500	Yes	3.77

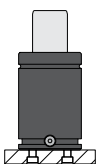
(1) other strokes under request

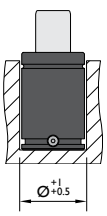
(2) alternative forces upon request

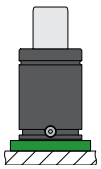
(3) ESK available for other strokes

Pressure medium	N_2	Working temperature	0-80°C	Min. security stroke	10%
Max. Charging pressure	150 bar	Temperature related force increase	+0.34%/°C	Repair Kit	KIT M-1500
Min. Charging pressure	25 bar	Max. working speed	1.6 m/s	Linkable	G1/8"

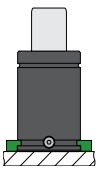
Mounting possibilities



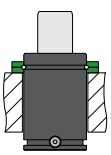




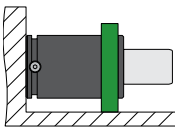
BFE-750
BFI-750
MC-1500



MT-1500
AT-1500



XS-1000
XCV-1500
XCK-1500



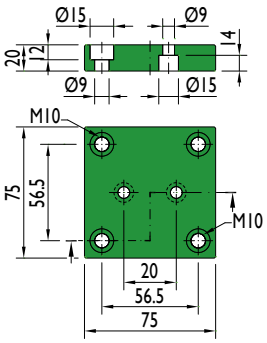
CF-1000

Flange must not support spring's force

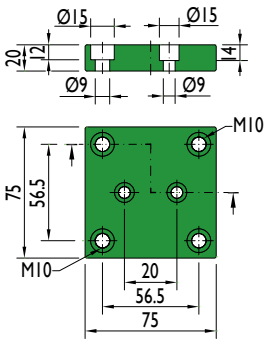
NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

Flanges

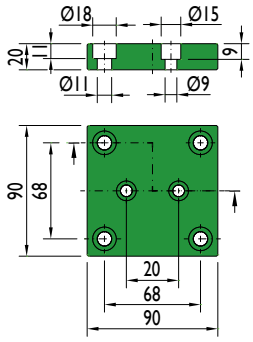
BFE-750



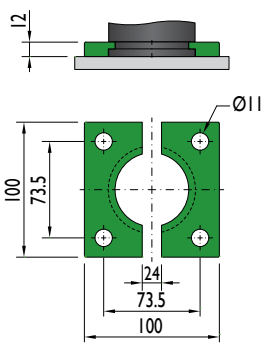
BFI-750



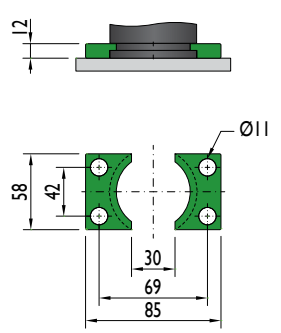
MC-1500



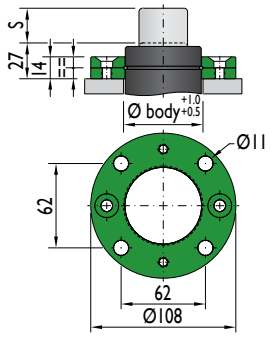
MT-1500



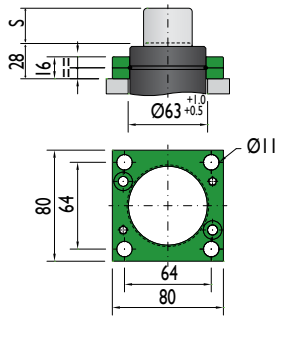
AT-1500



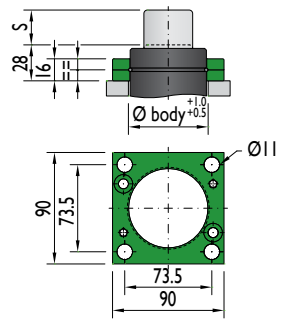
XS-1000



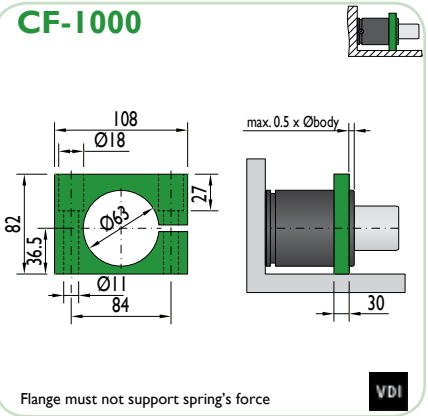
XCV-1500



XCK-1500

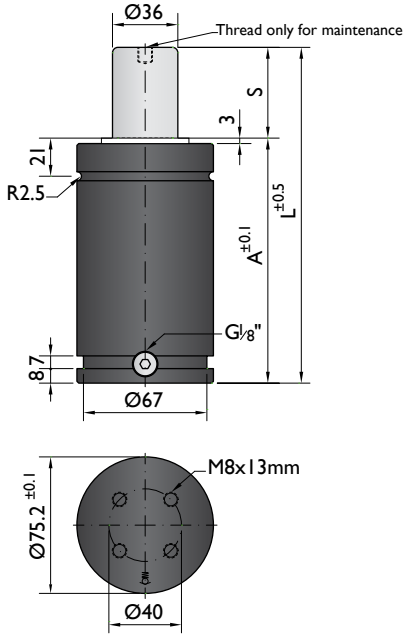


CF-1000

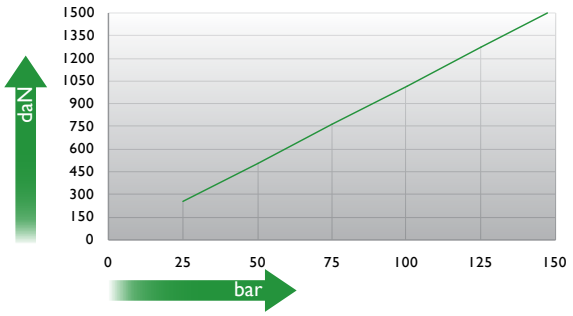


Special mounts available on

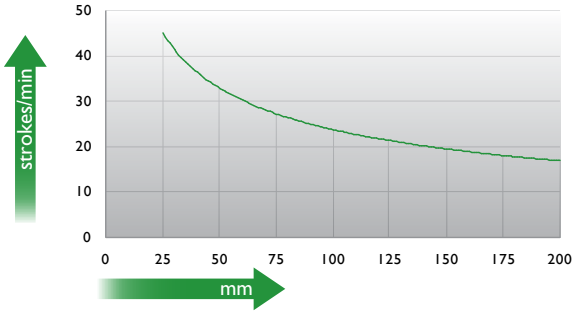
www.nitrogas.com



Force / Pressure



Max. strokes / minutes



Ordering example: 4 x HG-1500-125

Order No.	S (1) mm	L mm	A mm	F_0 (2) daN (20°C,150 bar)	F daN	(3)	kg
HG-1500-25	25	135	110	1500	1900	No	2.95
HG-1500-38	37.5	160	122.5		2000	No	3.18
HG-1500-50	50	185	135		2000	No	3.41
HG-1500-63	62.5	210	147.5		2000	No	3.64
HG-1500-80	80	245	165		2100	Yes	3.95
HG-1500-100	100	285	185		2100	Yes	4.33
HG-1500-125	125	335	210		2100	Yes	4.78
HG-1500-160	160	405	245		2200	Yes	5.43
HG-1500-200	200	485	285		2200	Yes	6.15

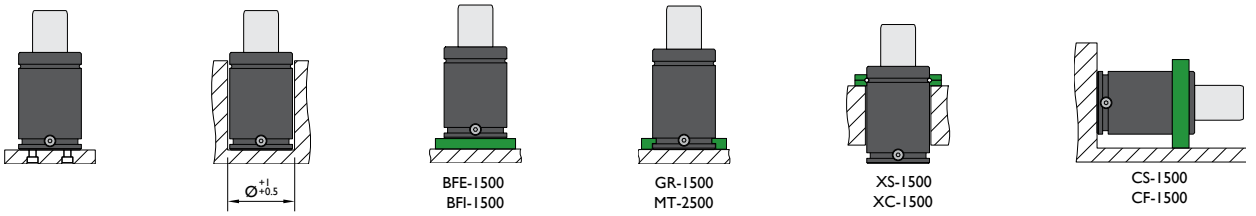
(1) other strokes under request

(2) alternative forces upon request

(3) ESK available for other strokes

Pressure medium	N_2	Working temperature	0-80°C	Min. security stroke	10%
Max. Charging pressure	150 bar	Temperature related force increase	+0.34%/°C	Repair Kit	KIT HG-1500
Min. Charging pressure	25 bar	Max. working speed	1.6 m/s	Linkable	G1/8"

Mounting possibilities

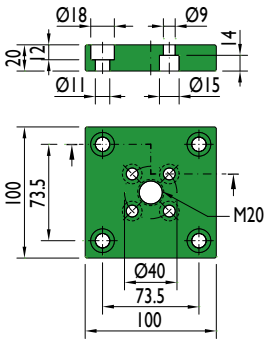


Flange must not support spring's force

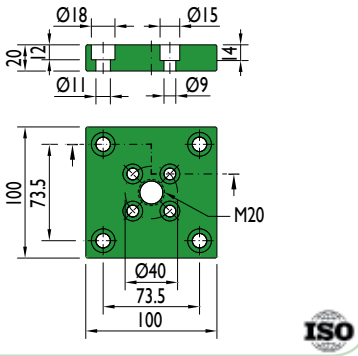
NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

Flanges

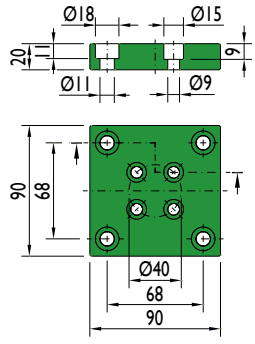
BFE-1500



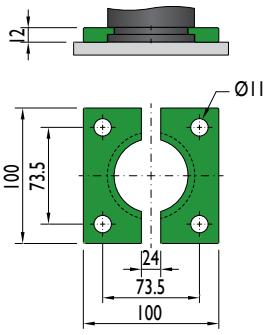
BFI-1500



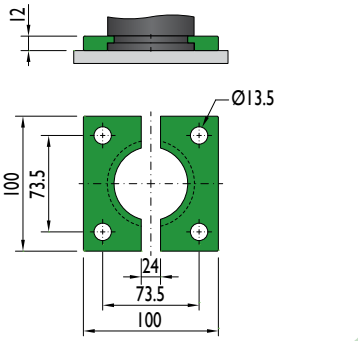
MC-2500



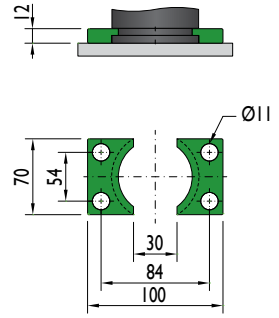
GR-1500



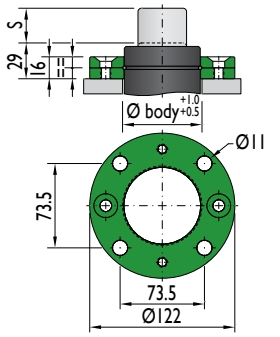
MT-2500



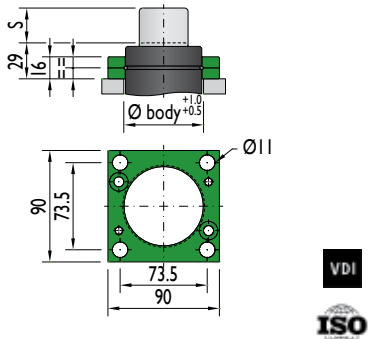
AR-1500



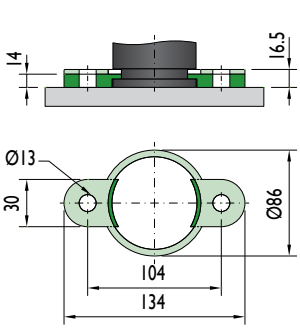
XS-1500



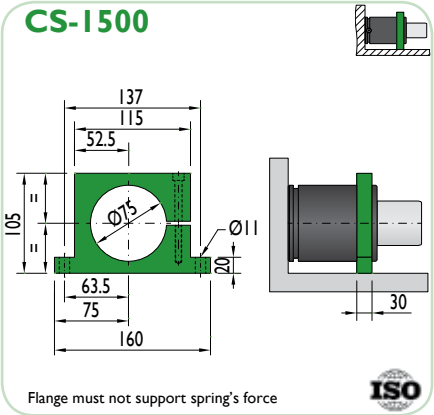
XC-1500



PR-1500

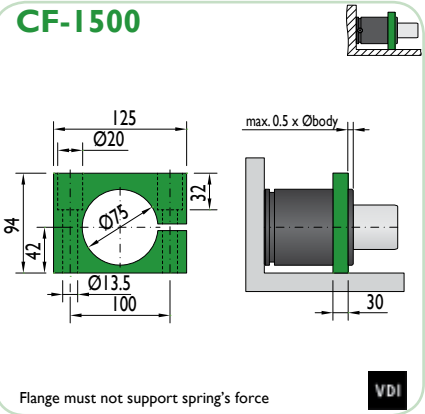


CS-1500

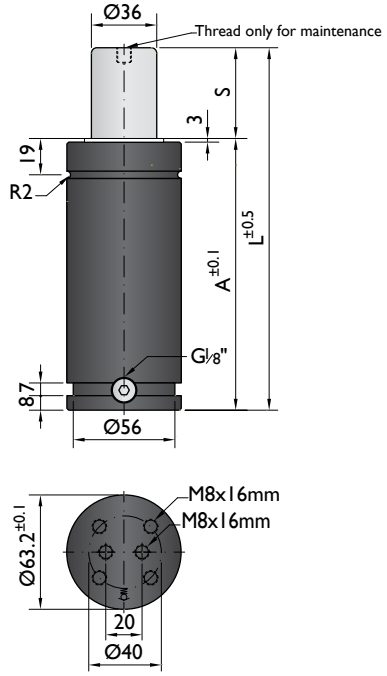


Flange must not support spring's force

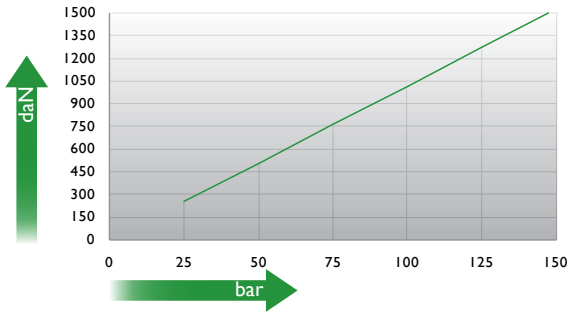
CF-1500



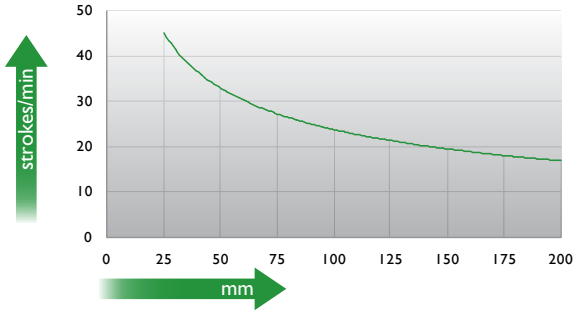
Flange must not support spring's force



Force / Pressure



Max. strokes / minutes



Ordering example: 4 x HD-1500-125

Order No.	S (1) mm	L mm	A mm	F_0 (2) daN (20°C,150 bar)	F daN	(3)	kg
HD-1500-25	25	145	120	1500	2000	No	1.89
HD-1500-38	38	171	133		2000	No	2.16
HD-1500-50	50	195	145		2100	No	2.26
HD-1500-63	63	221	158		2200	No	2.51
HD-1500-80	80	255	175		2300	Yes	2.59
HD-1500-100	100	295	195		2300	Yes	2.86
HD-1500-125	125	345	220		2400	Yes	3.33
HD-1500-160	160	415	255		2400	Yes	3.78
HD-1500-200	200	495	295		2400	Yes	4.23
HD-1500-250	250	595	345		2500	Yes	4.80
HD-1500-300	300	695	395		2500	Yes	5.38

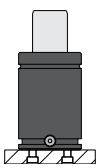
(1) other strokes under request

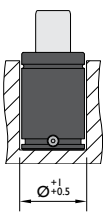
(2) alternative forces upon request

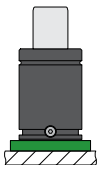
(3) ESK available for other strokes

Pressure medium	N_2	Working temperature	0-80°C	Min. security stroke	10%
Max. Charging pressure	150 bar	Temperature related force increase	+0.34%/°C	Repair Kit	KIT HD-1500
Min. Charging pressure	25 bar	Max. working speed	1.6 m/s	Linkable	G1/8"

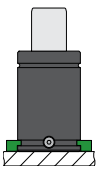
Mounting possibilities



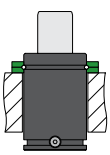




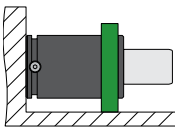
BFE-1500
BFI-1500
MC-2500



MT-1500
AT-1500



XS-1000
XCV-1500
XCK-1500



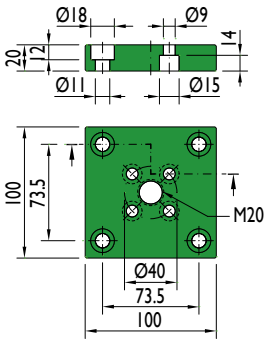
CF-1000

Flange must not support spring's force

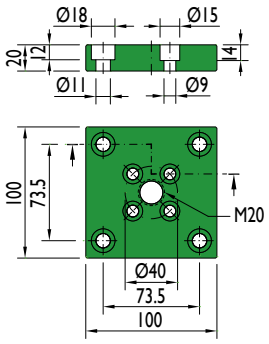
NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

Flanges

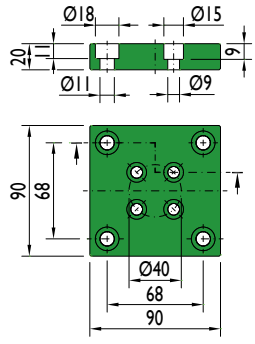
BFE-1500



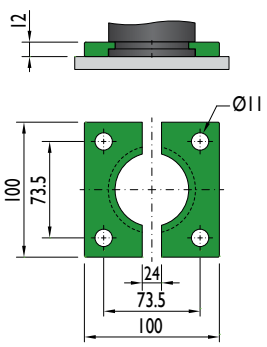
BFI-1500



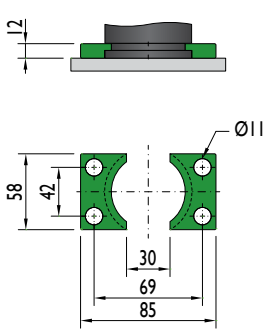
MC-2500



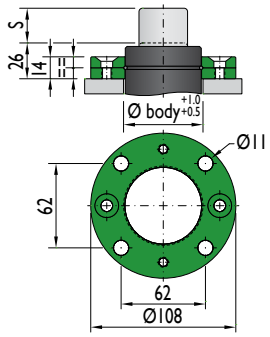
MT-1500



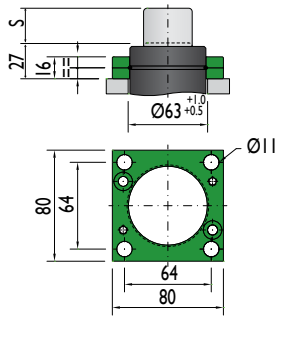
AT-1500



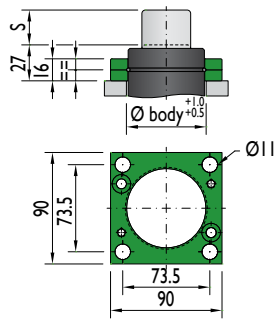
XS-1000



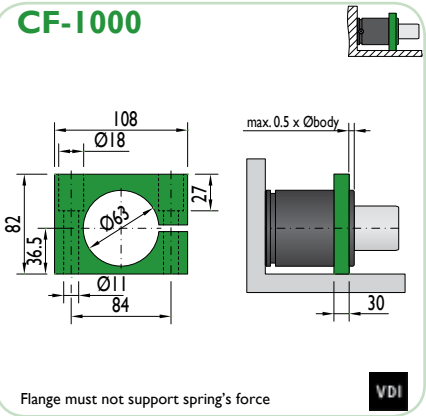
XCV-1500



XCK-1500

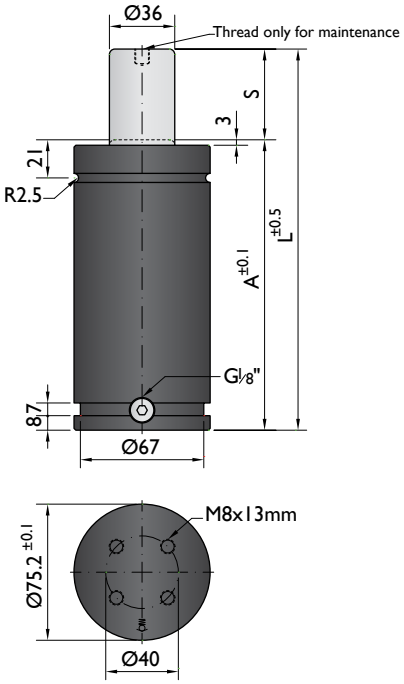


CF-1000

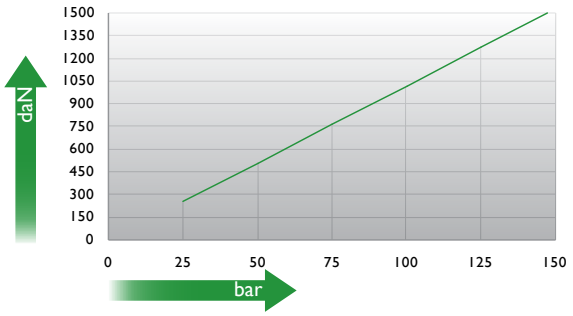


CNOMO
EM24.54.700

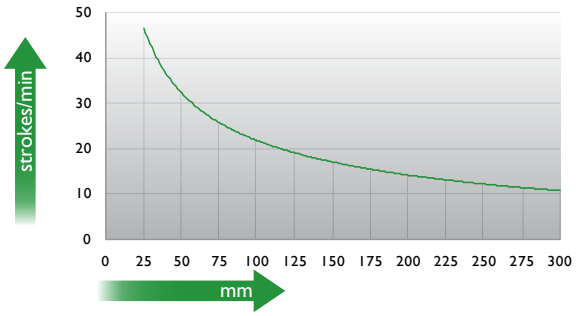
PSA
E24.54.815.G



Force / Pressure



Max. strokes / minutes



Ordering example: 4 x G-1500-125

Order No.	S (1) mm	L mm	A mm	F_0 (2) daN (20°C,150 bar)	F daN	(3)	kg
G-1500-25	25	160	135		1800	No	3.48
G-1500-38	38.1	186.2	148.1		1900	No	3.71
G-1500-50	50	210	160		2000	No	4.05
G-1500-63	63.5	237	173.5		2000	No	4.28
G-1500-80	80	270	190		2000	No	4.37
G-1500-100	100	310	210	1500	2000	Yes	4.44
G-1500-125	125	360	235		2100	Yes	4.87
G-1500-160	160	430	270		2100	Yes	5.29
G-1500-200	200	510	310		2100	Yes	6.75
G-1500-250	250	610	360		2100	Yes	7.62
G-1500-300	300	710	410		2100	Yes	8.48

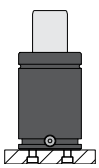
(1) other strokes under request

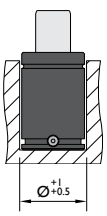
(2) alternative forces upon request

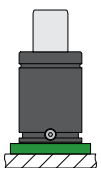
(3) ESK available for other strokes

Pressure medium	N_2	Working temperature	0-80°C	Min. security stroke	10%
Max. Charging pressure	150 bar	Temperature related force increase	+0.34%/°C	Repair Kit	KIT G-1500
Min. Charging pressure	25 bar	Max. working speed	1.6 m/s	Linkable	G1/8"

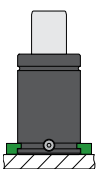
Mounting possibilities



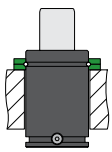




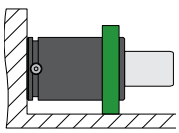
BFE-1500
BFI-1500
MC-2500



GR-1500
MT-2500
AR-1500
PR-1500



XS-1500
XC-1500



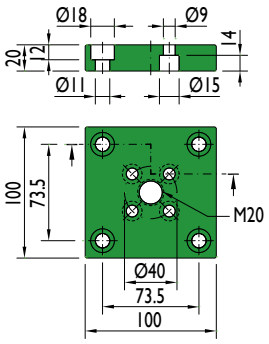
CS-1500
CF-1500

Flange must not support spring's force

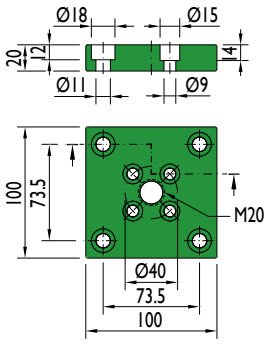
NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

Flanges

BFE-1500

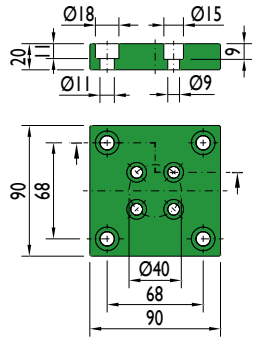


BFI-1500

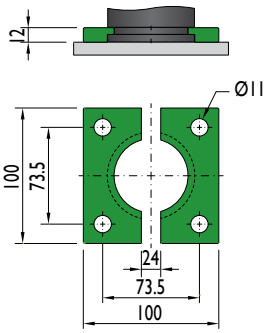


ISO

MC-2500



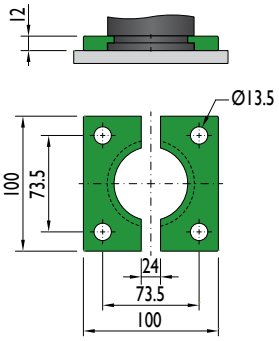
GR-1500



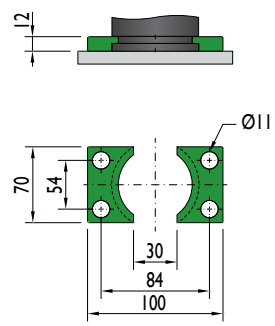
VDI

ISO

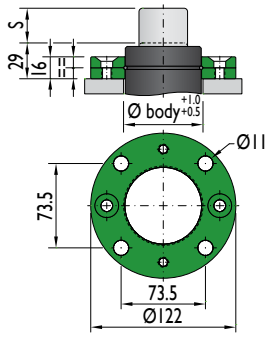
MT-2500



AR-1500

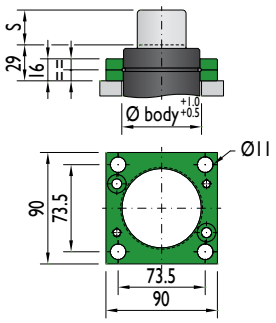


XS-1500



ISO

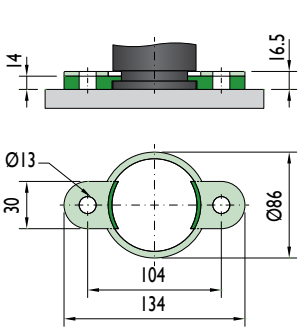
XC-1500



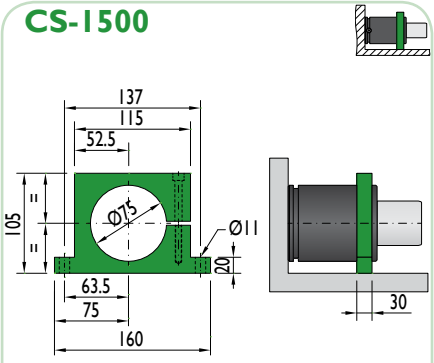
VDI

ISO

PR-1500



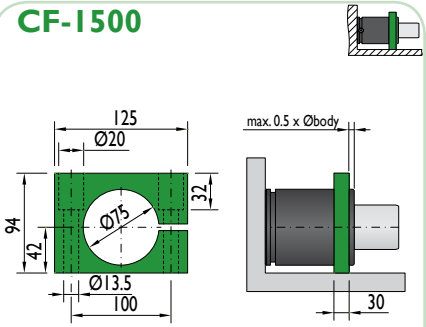
CS-1500



Flange must not support spring's force

ISO

CF-1500

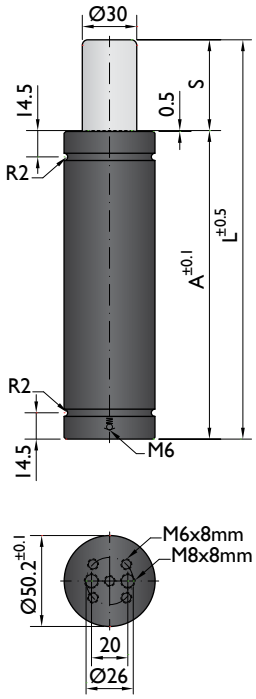


Flange must not support spring's force

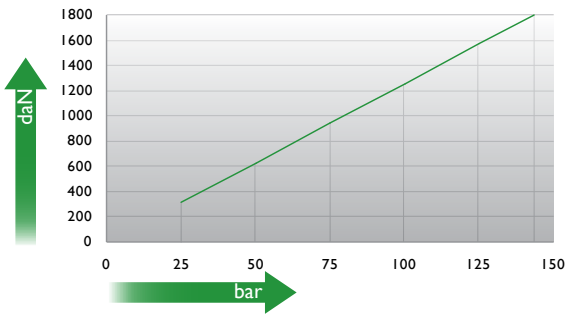
VDI

Special mounts available on

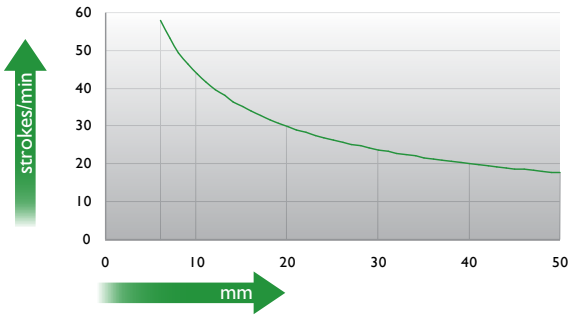
www.nitrogas.com



Force / Pressure



Max. strokes / minutes



Ordering example: 4 x T-1800-50

Order No.	S (1) mm	L mm	A mm	F_0 (2) daN (20°C,145 bar)	F daN	(3)	kg
T-1800-6	6	66	60	1800	2400	No	0.63
T-1800-10	10	80	70		2700	No	0.74
T-1800-16	16	106	90		2700	No	0.89
T-1800-25	25	135	110		2700	No	1.00
T-1800-32	32	162	130		2700	No	1.15
T-1800-40	40	190	150		2700	No	1.31
T-1800-50	50	220	170		2700	No	1.48

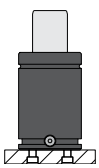
(1) other strokes under request

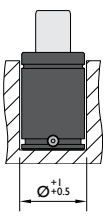
(2) alternative forces upon request

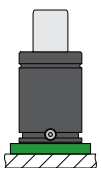
(3) ESK under request

Pressure medium	N_2	Working temperature	0-80°C	Min. security stroke	10%
Max. Charging pressure	145 bar	Temperature related force increase	+0.34%/°C	Repair Kit	KIT T-1800
Min. Charging pressure	25 bar	Max. working speed	0.5 m/s	Linkable	No

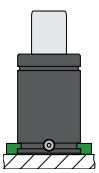
Mounting possibilities



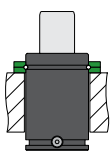




BFE-750
BFI-750
MC-1000



XT-1800

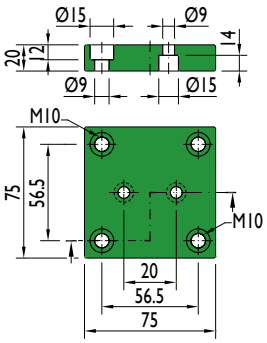


XS-750
XC-750

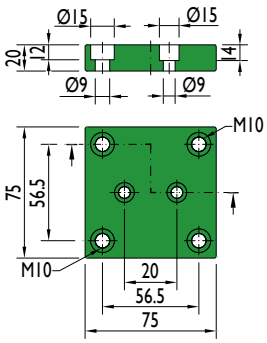
NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

Flanges

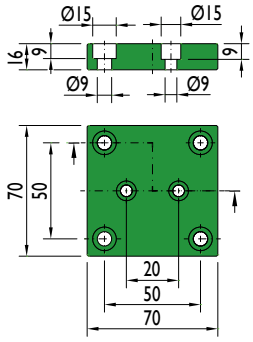
BFE-750



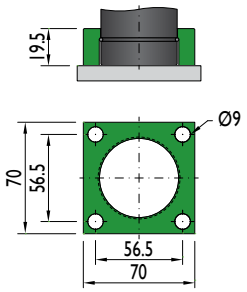
BFI-750



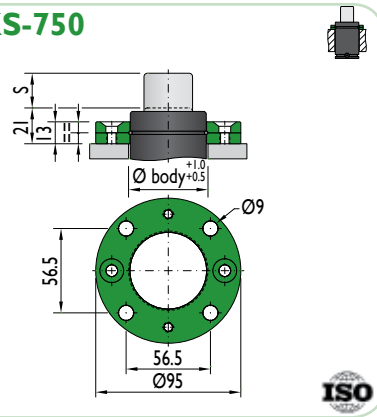
MC-1000



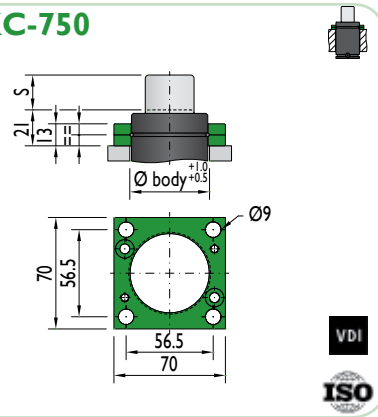
XT-1800

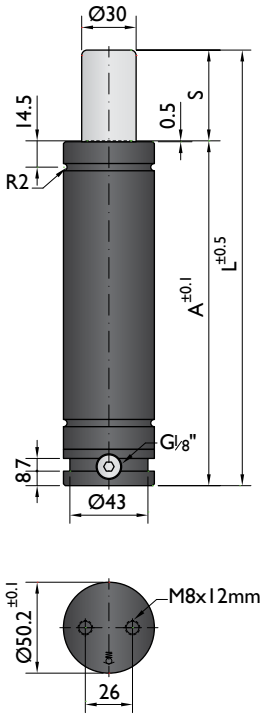


XS-750

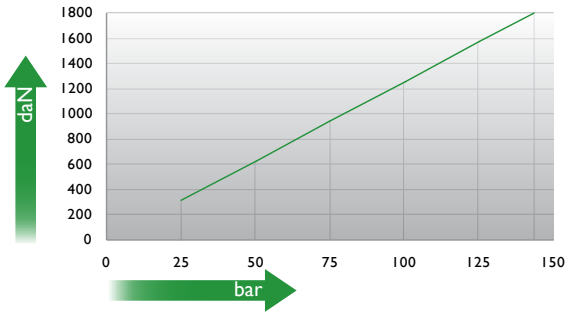


XC-750

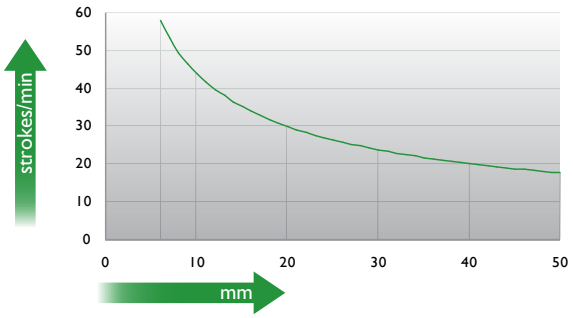




Force / Pressure



Max. strokes / minutes



Ordering example: 4 x TC-1800-50

Order No.	S (1) mm	L mm	A mm	F_0 (2) daN (20°C,145 bar)	F daN	(3)	kg
TC-1800-6	6	86	80	1800	2400	No	0.87
TC-1800-10	10	100	90		2700	No	0.98
TC-1800-16	16	126	110		2700	No	1.13
TC-1800-25	25	155	130		2700	No	1.24
TC-1800-32	32	182	150		2700	No	1.39
TC-1800-40	40	210	170		2700	No	1.55
TC-1800-50	50	240	190		2700	No	1.72

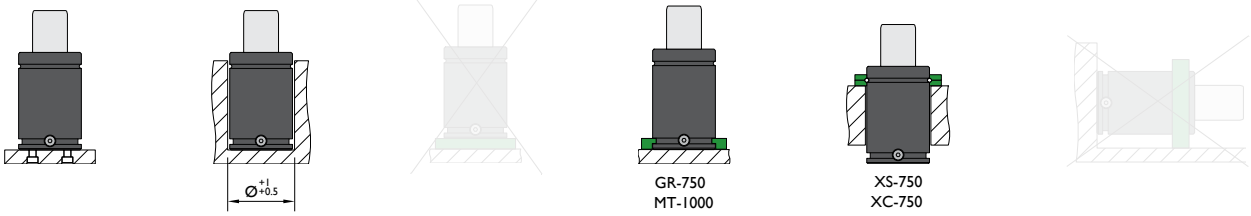
(1) other strokes under request

(2) alternative forces upon request

(3) ESK under request

Pressure medium	N_2	Working temperature	0-80°C	Min. security stroke	10%
Max. Charging pressure	145 bar	Temperature related force increase	+0.34%/°C	Repair Kit	KIT TC-1800
Min. Charging pressure	25 bar	Max. working speed	0.5 m/s	Linkable	G1/8"

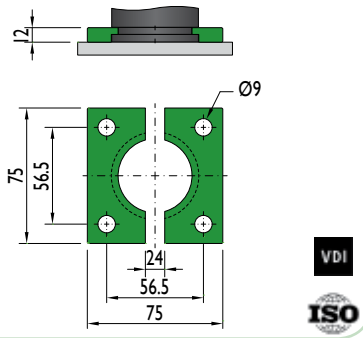
Mounting possibilities



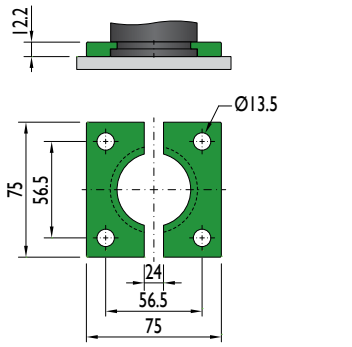
NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

Flanges

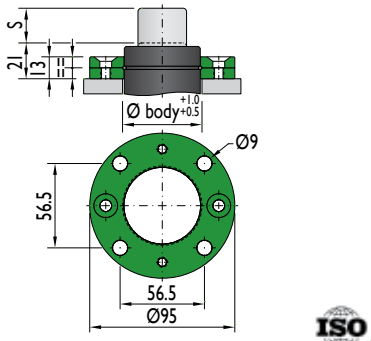
GR-750



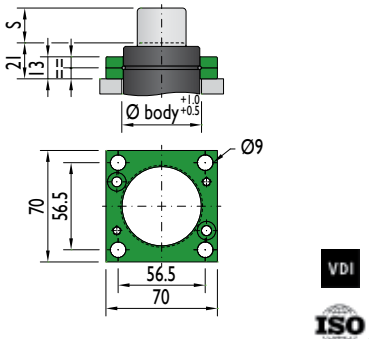
MT-1000

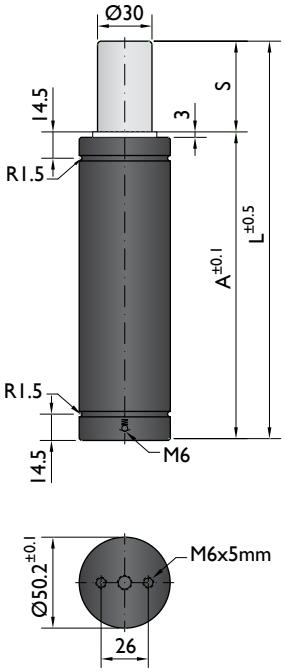


XS-750

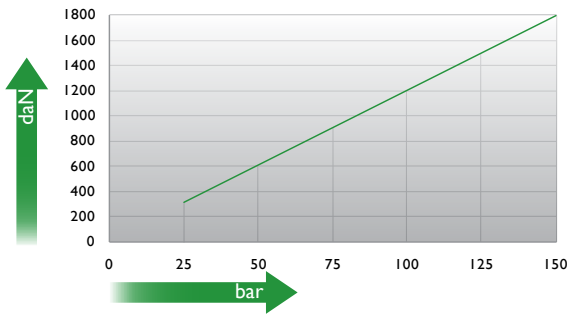


XC-750

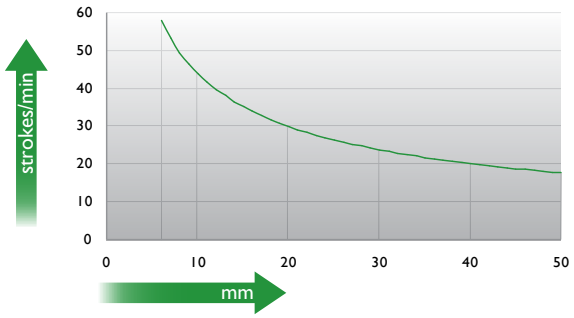




Force / Pressure



Max. strokes / minutes



Ordering example: 4 x TS-1800-65

Order No.	S (1) mm	L mm	A mm	F_0 (2) daN (20°C,150 bar)	F daN	(3)	kg
TS-1800-6	6	66	60	1800	2400	No	0.63
TS-1800-10	10	80	70		2700	No	0.74
TS-1800-16	16	106	90		2700	No	0.89
TS-1800-25	25	135	110		2700	No	1.00
TS-1800-32	32	162	130		2700	No	1.15
TS-1800-40	40	190	150		2700	No	1.31
TS-1800-50	50	220	170		2700	No	1.48
TS-1800-65	65	271	206		2700	No	1.58

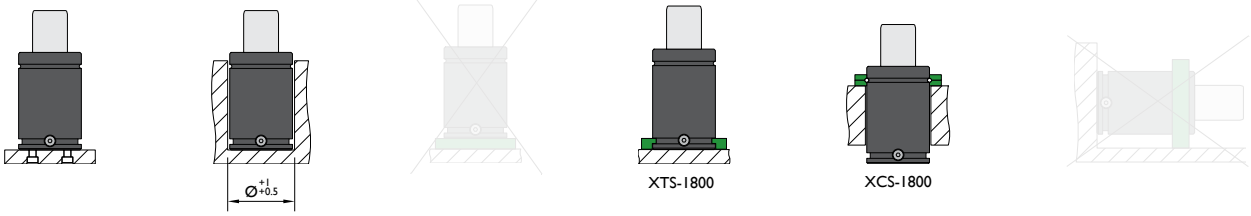
(1) other strokes under request

(2) alternative forces upon request

(3) ESK under request

Pressure medium	N_2	Working temperature	0-80°C	Min. security stroke	10%
Max. Charging pressure	150 bar	Temperature related force increase	+0.34%/°C	Repair Kit	KIT TS-1800
Min. Charging pressure	25 bar	Max. working speed	0.5 m/s	Linkable	No

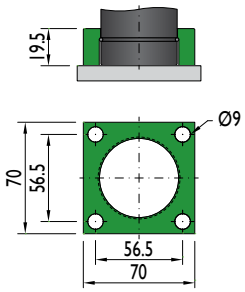
Mounting possibilities



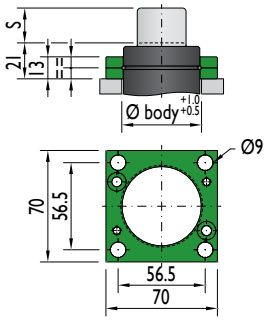
NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

Flanges

XTS-1800

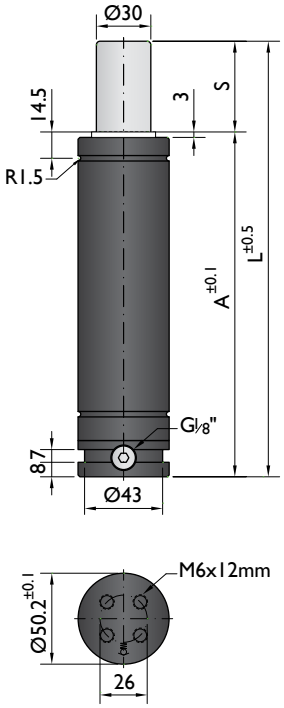


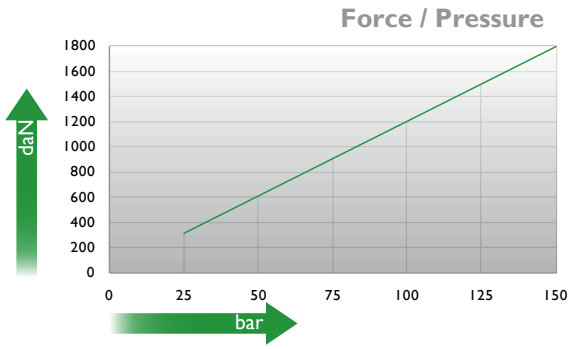
XCS-1800

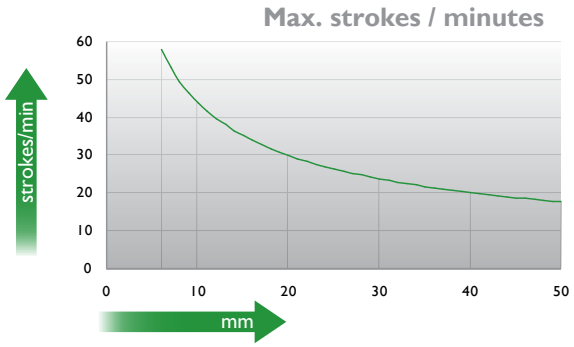


TSC-1800

Compact







Ordering example: 4 x TSC-1800-65

Order No.	S (1) mm	L mm	A mm	F_0 (2) daN (20°C,150 bar)	F daN	(3)	kg
TSC-1800-6	6	86	80	1800	2400	No	0.87
TSC-1800-10	10	100	90		2700	No	0.98
TSC-1800-16	16	126	110		2700	No	1.13
TSC-1800-25	25	155	130		2700	No	1.24
TSC-1800-32	32	182	150		2700	No	1.39
TSC-1800-40	40	210	170		2700	No	1.55
TSC-1800-50	50	240	190		2700	No	1.72
TSC-1800-65	65	291	226		2700	No	1.89

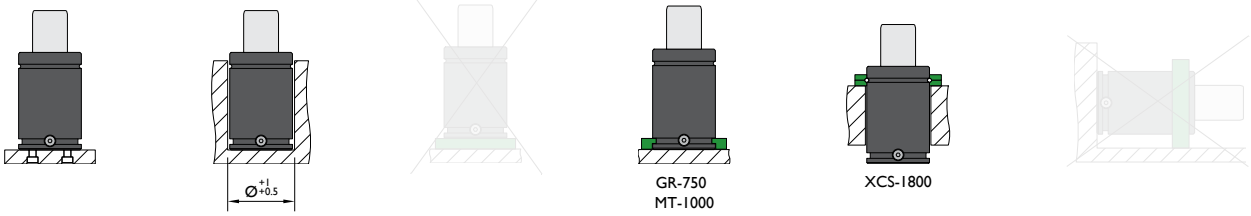
(1) other strokes under request

(2) alternative forces upon request

(3) ESK under request

Pressure medium	N_2	Working temperature	0-80°C	Min. security stroke	10%
Max. Charging pressure	150 bar	Temperature related force increase	+0.34%/°C	Repair Kit	KIT TSC-1800
Min. Charging pressure	25 bar	Max. working speed	0.5 m/s	Linkable	G1/8"

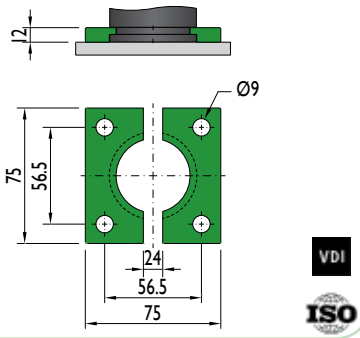
Mounting possibilities



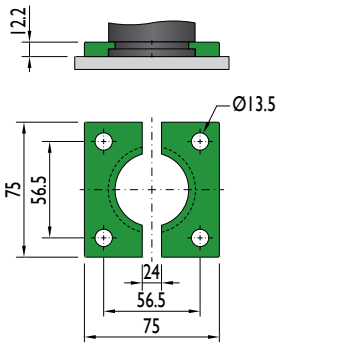
NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

Flanges

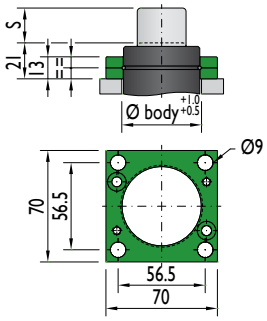
GR-750



MT-1000

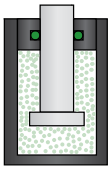


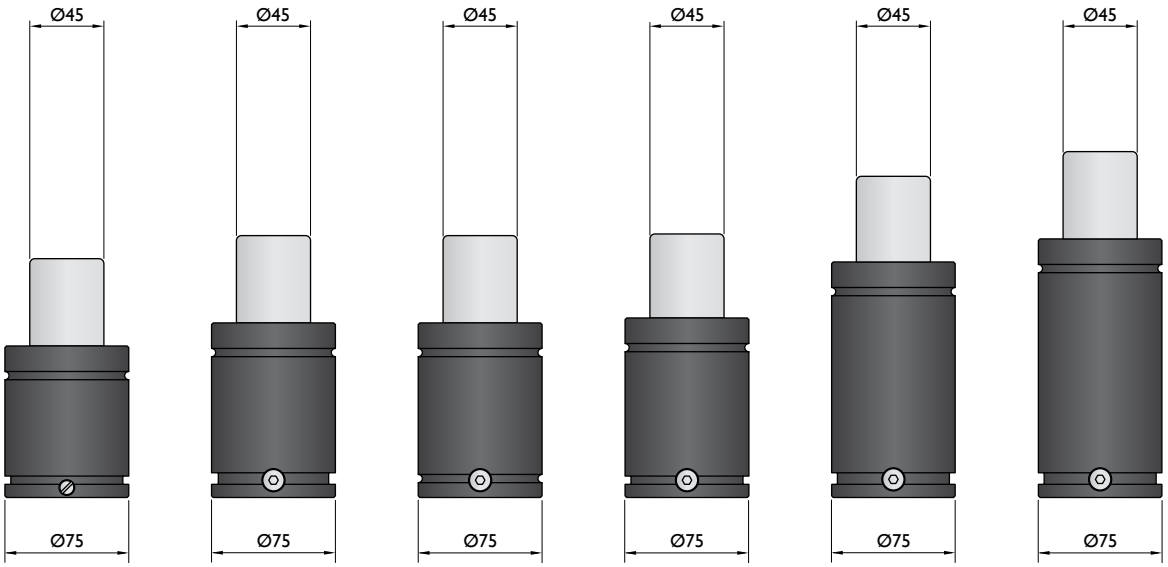
XCS-1800



Force 2500 daN

Piston Rod Sealed gas springs





Model	KP-2400	NR-2400	NT-2400	K-2500	M-2500	HD-2400
Initial F (daN)	2400	2400	2400	2500	2500	2400
L max (mm)	2xStroke+45	2xStroke+59	2xStroke+59	2xStroke+60	2xStroke+95	2xStroke+110
Stroke (mm)	16-125	16-125	16-125	12-125	25-160	25-300

* other strokes under request

Standards

PED 2014/68/EU	**PED** 2014/68/EU	**PED** 2014/68/EU	**PED** 2014/68/EU	**PED** 2014/68/EU	**PED** 2014/68/EU
ISO 11901	ISO 11901	ISO 11901	ISO 11901	ISO 11901	**ISO** 11901
VDI 3003	VDI 3003	VDI 3003	VDI 3003	VDI 3003	**VDI** 3003
CNOMO EM24.54.700	CNOMO EM24.54.700	CNOMO EM24.54.700	CNOMO EM24.54.700	CNOMO EM24.54.700	CNOMO EM24.54.700

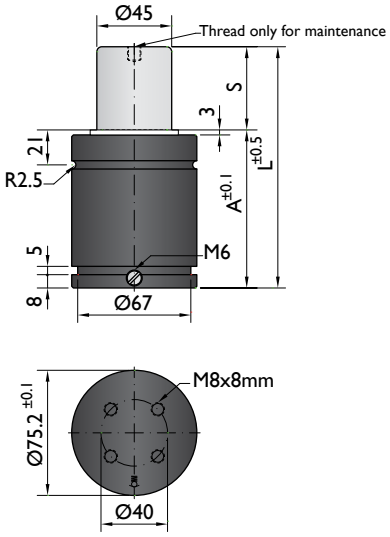
NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

NITROGAS

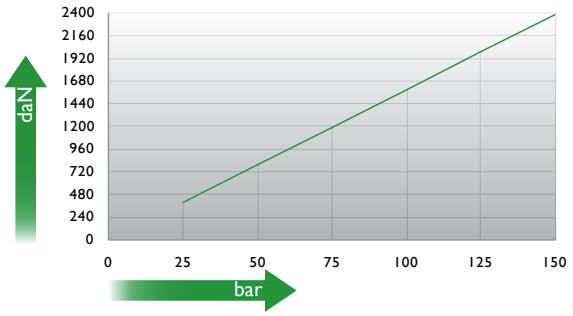
KP-2400

Low Profile - High Force

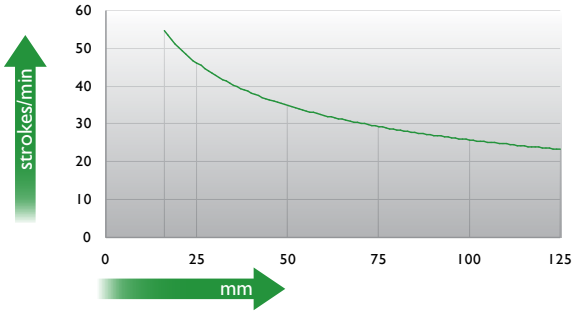
PSA
E24.54.815.G



Force / Pressure



Max. strokes / minutes



Ordering example: 4 x KP-2400-50

Order No.	S (1) mm	L mm	A mm	F_0 (2) daN (20°C,150 bar)	F daN	(3)	kg
KP-2400-16	16	77	61	2400	3700	No	1.54
KP-2400-19	19	83	64		3800	No	1.57
KP-2400-25	25	95	70		3900	No	1.59
KP-2400-32	32	109	77		4000	No	1.87
KP-2400-38	38	121	83		4000	No	1.94
KP-2400-50	50	145	95		4300	Yes	2.25
KP-2400-63	63	171	108		4300	Yes	2.52
KP-2400-75	75	195	120		4100	Yes	2.68
KP-2400-80	80	205	125		4100	Yes	2.75
KP-2400-100	100	245	145		4100	Yes	3.06
KP-2400-125	125	295	170		4100	Yes	3.31

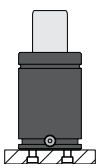
(1) other strokes under request

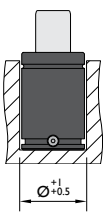
(2) alternative forces upon request

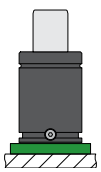
(3) ESK available for other strokes

Pressure medium	N_2	Working temperature	0-80°C	Min. security stroke	10%
Max. Charging pressure	150 bar	Temperature related force increase	+0.34%/°C	Repair Kit	KIT KP-2400
Min. Charging pressure	25 bar	Max. working speed	1.6 m/s	Linkable	M6

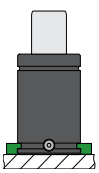
Mounting possibilities



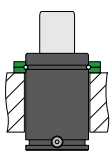




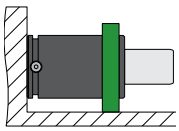
BFE-1500
BFI-1500
MC-2500



GR-1500
MT-2500
AR-1500
PR-1500



XS-1500
XC-1500



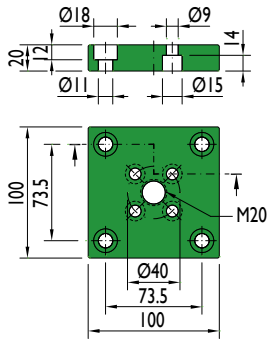
CS-1500
CF-1500

Flange must not support spring's force

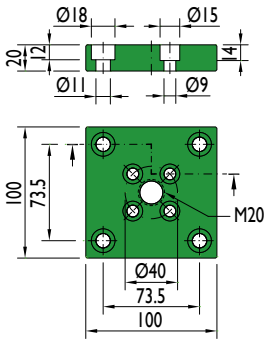
NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

Flanges

BFE-1500

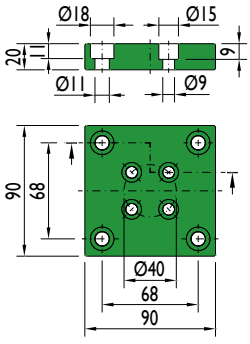


BFI-1500

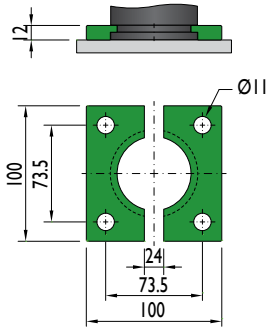


ISO

MC-2500



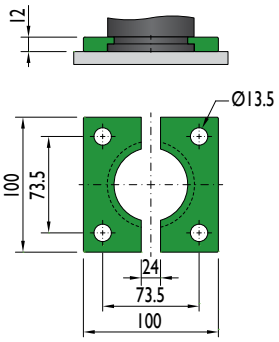
GR-1500



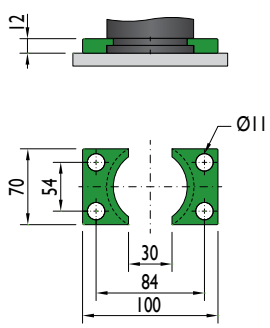
VDI

ISO

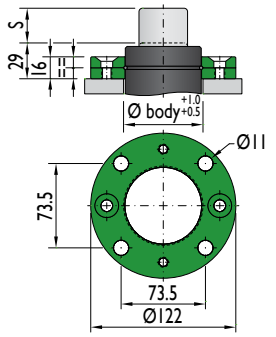
MT-2500



AR-1500

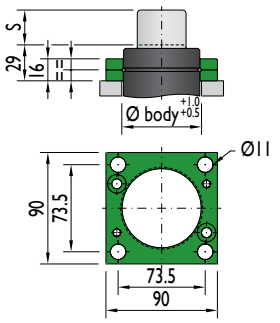


XS-1500



ISO

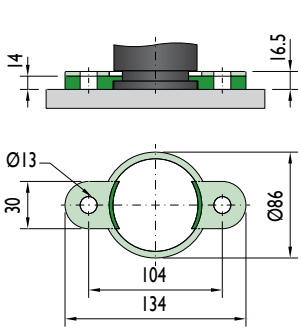
XC-1500



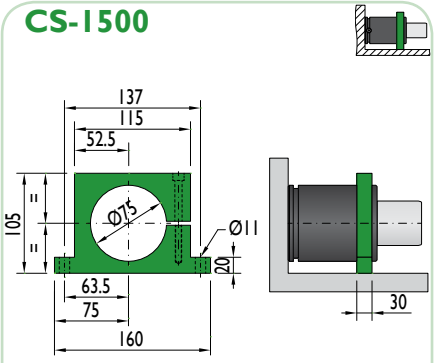
VDI

ISO

PR-1500



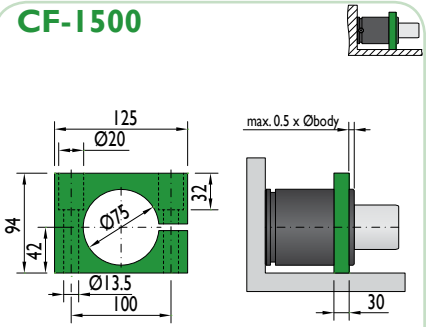
CS-1500



Flange must not support spring's force

ISO

CF-1500

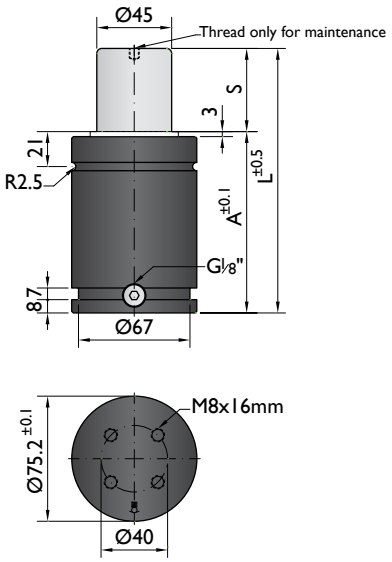


Flange must not support spring's force

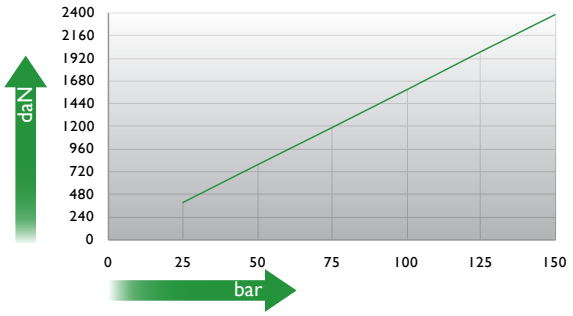
VDI

NR-2400

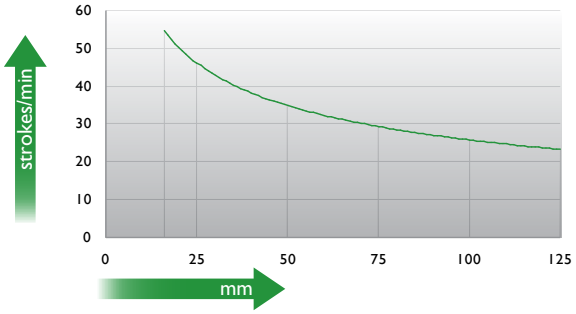
Low Profile - High Force



Force / Pressure



Max. strokes / minutes



Ordering example: 4 x NR-2400-50

Order No.	S [1] mm	L mm	A mm	F_0 [2] daN (20°C,150 bar)	F daN	[3]	kg
NR-2400-16	16	91	75	2400	3700	No	2.01
NR-2400-19	19	97	78		3800	No	2.06
NR-2400-25	25	109	84		3900	No	2.17
NR-2400-32	32	123	91		4000	No	2.30
NR-2400-38	38	135	97		4000	No	2.41
NR-2400-50	50	159	109		4300	Yes	2.63
NR-2400-63	63	185	122		4300	Yes	2.86
NR-2400-75	75	209	134		4100	Yes	3.09
NR-2400-80	80	219	139		4100	Yes	3.15
NR-2400-100	100	259	159		4100	Yes	3.54
NR-2400-125	125	309	184		4100	Yes	4.05

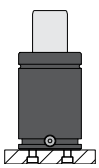
[1] other strokes under request

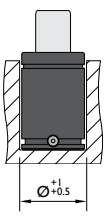
[2] alternative forces upon request

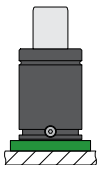
[3] ESK available for other strokes

Pressure medium	N_2	Working temperature	0-80°C	Min. security stroke	10%
Max. Charging pressure	150 bar	Temperature related force increase	+0.34%/°C	Repair Kit	KIT NR-2400
Min. Charging pressure	25 bar	Max. working speed	1.6 m/s	Linkable	G1/8"

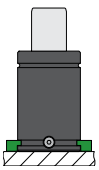
Mounting possibilities



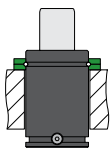




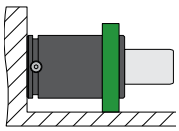
BFE-1500
BFI-1500
MC-2500



GR-1500
MT-2500
AR-1500
PR-1500



XS-1500
XC-1500



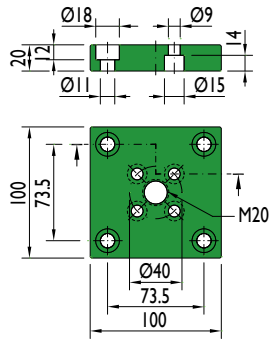
CS-1500
CF-1500

Flange must not support spring's force

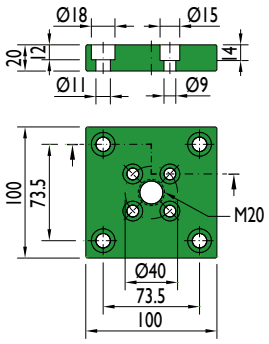
NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

Flanges

BFE-1500

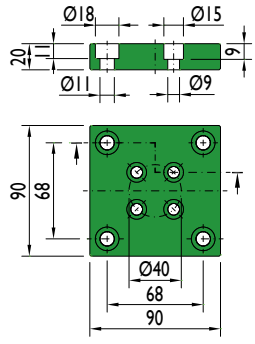


BFI-1500

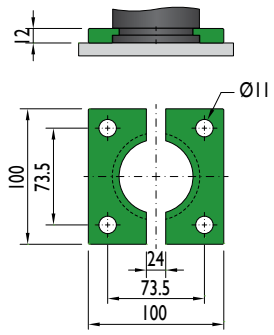


ISO

MC-2500



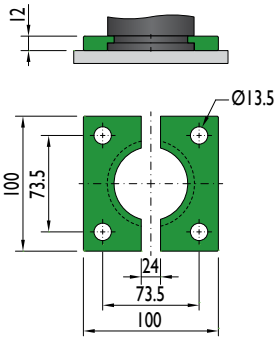
GR-1500



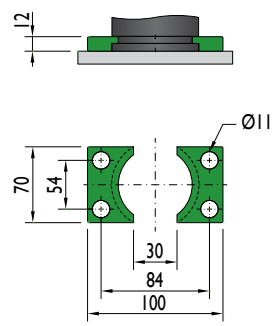
VDI

ISO

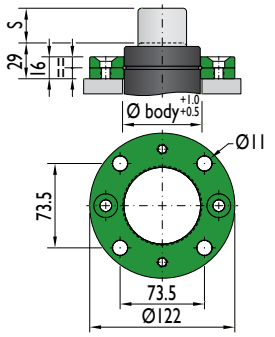
MT-2500



AR-1500

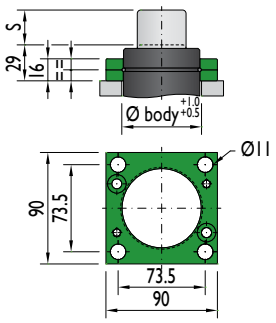


XS-1500



ISO

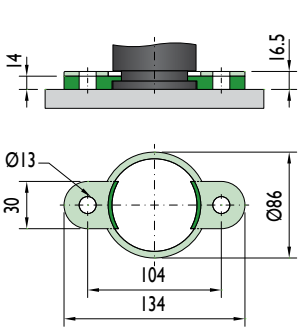
XC-1500



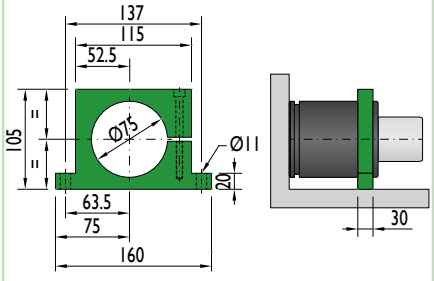
VDI

ISO

PR-1500



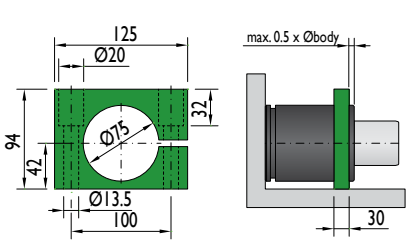
CS-1500



Flange must not support spring's force

ISO

CF-1500



Flange must not support spring's force

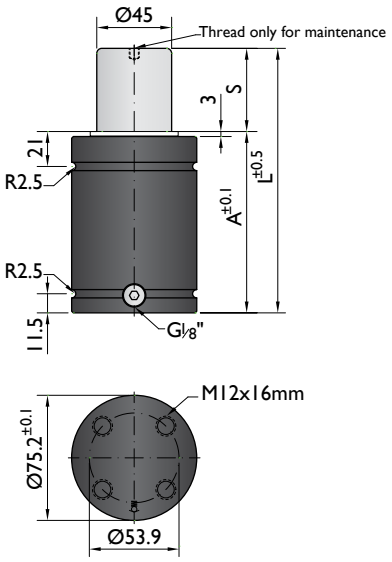
VDI

NT-2400

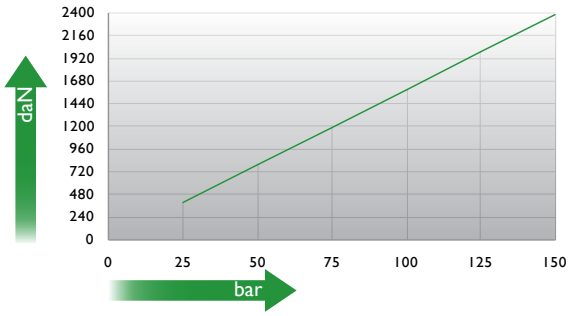
Low Profile - High Force

PSA
E24.54.815.G

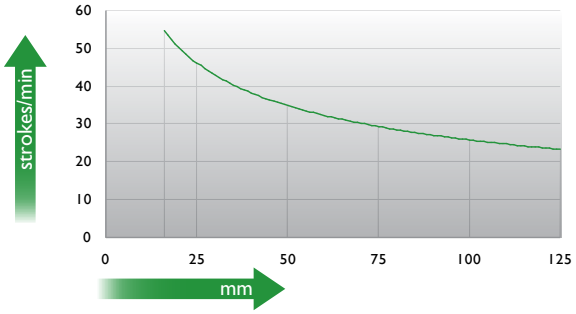
SMS DNH
3203N



Force / Pressure



Max. strokes / minutes



Ordering example: 4 x NT-2400-50

Order No.	S (1) mm	L mm	A mm	F_0 (2) daN (20°C,150 bar)	F daN	(3)	kg
NT-2400-16	16	91	75	2400	3700	No	2.01
NT-2400-19	19	97	78		3800	No	2.06
NT-2400-25	25	109	84		3900	No	2.17
NT-2400-32	32	123	91		4000	No	2.30
NT-2400-38	38	135	97		4000	No	2.41
NT-2400-50	50	159	109		4300	Yes	2.63
NT-2400-63	63	185	122		4300	Yes	2.86
NT-2400-75	75	209	134		4100	Yes	3.09
NT-2400-80	80	219	139		4100	Yes	3.15
NT-2400-100	100	259	159		4100	Yes	3.54
NT-2400-125	125	309	184		4100	Yes	4.05

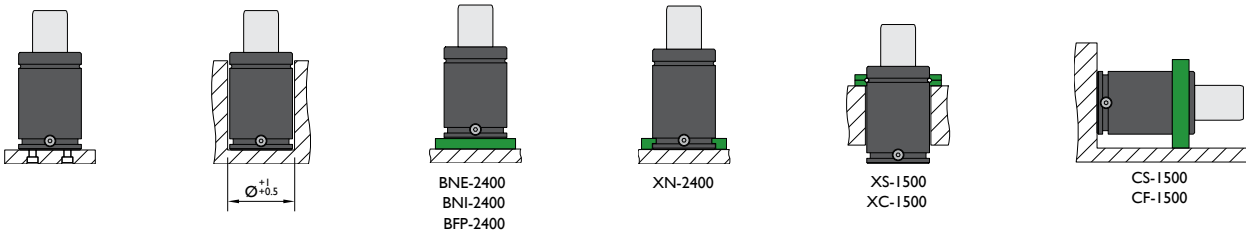
(1) other strokes under request

(2) alternative forces upon request

(3) ESK available for other strokes

Pressure medium	N_2	Working temperature	0-80°C	Min. security stroke	10%
Max. Charging pressure	150 bar	Temperature related force increase	+0.34%/°C	Repair Kit	KIT NT-2400
Min. Charging pressure	25 bar	Max. working speed	1.6 m/s	Linkable	G1/8"

Mounting possibilities

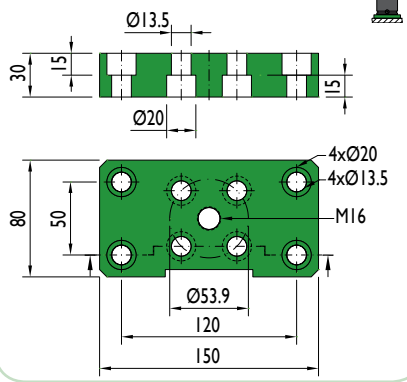


Flange must not support spring's force

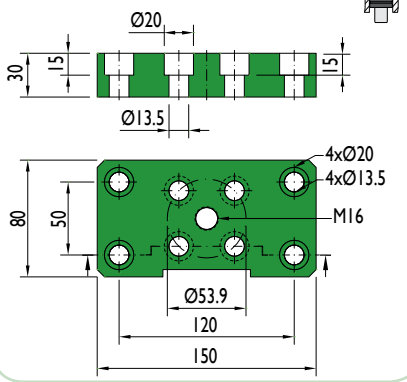
NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com

Flanges

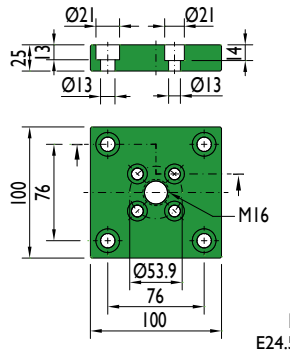
BNE-2400



BNI-2400

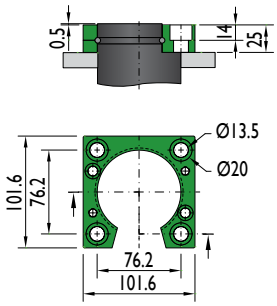


BFP-2400

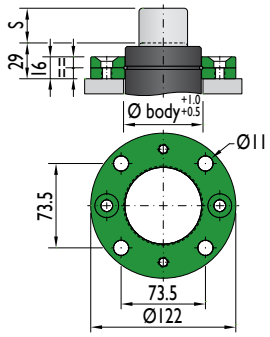


PSA
E24.54.815.G

XN-2400

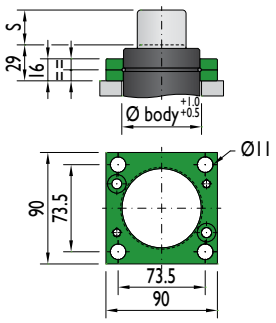


XS-1500



ISO

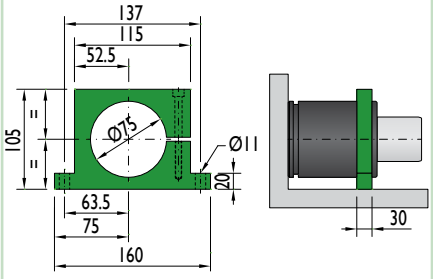
XC-1500



VDI

ISO

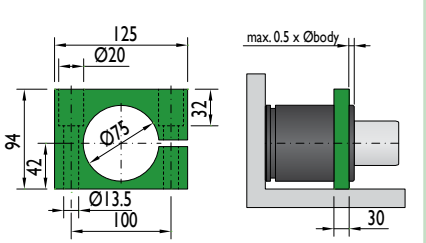
CS-1500



Flange must not support spring's force

ISO

CF-1500

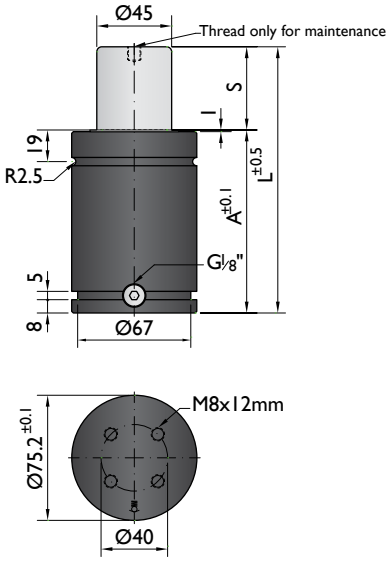


Flange must not support spring's force

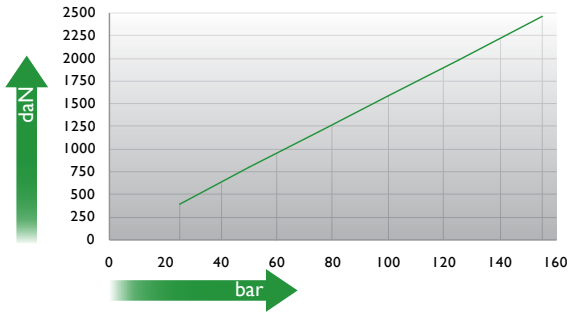
VDI

K-2500

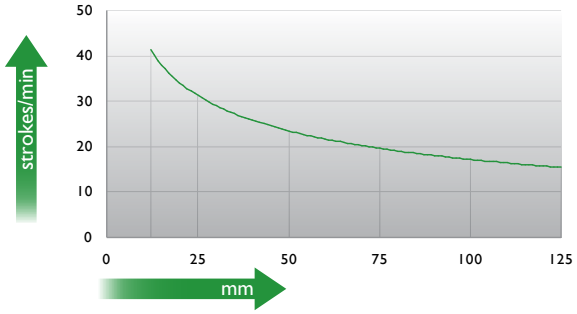
Low Profile - High Force



Force / Pressure



Max. strokes / minutes



Ordering example: 4 x K-2500-50

Order No.	S (1) mm	L mm	A mm	F_0 (2) daN (20°C,155 bar)	F daN	(3)	kg
K-2500-12	12	84	72	2500	3500	No	1.96
K-2500-25	25	110	85		3800	No	2.18
K-2500-38	38	136	98		4000	No	2.43
K-2500-50	50	160	110		4300	Yes	2.82
K-2500-63	63	186	123		4100	Yes	2.96
K-2500-80	80	220	140		4100	Yes	3.20
K-2500-100	100	260	160		4100	Yes	3.45
K-2500-125	125	310	185		4100	Yes	3.80

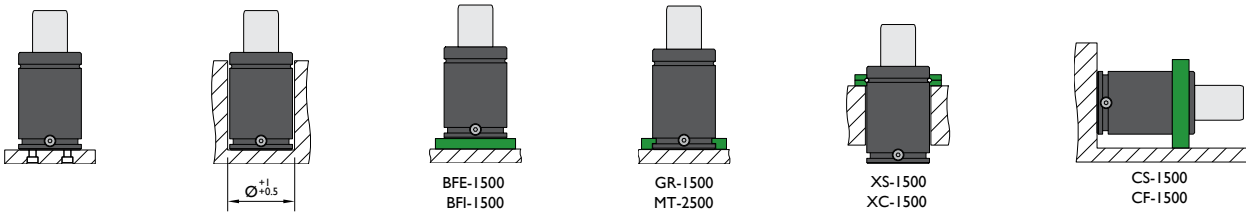
(1) other strokes under request

(2) alternative forces upon request

(3) ESK available for other strokes

Pressure medium	N_2	Working temperature	0-80°C	Min. security stroke	10%
Max. Charging pressure	155 bar	Temperature related force increase	+0.34%/°C	Repair Kit	KIT K-2500
Min. Charging pressure	25 bar	Max. working speed	1.6 m/s	Linkable	G1/8"

Mounting possibilities



Flange must not support spring's force

NITROGAS S.A.U. Albert Einstein, 9 P.T. de Álava - 01510 Miñano (ÁLAVA) SPAIN
+34 945 297 222 - nitrogas@nitrogas.com - www.nitrogas.com