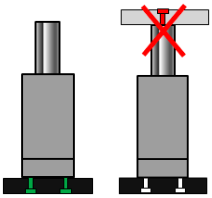
Nitrogen cylinders

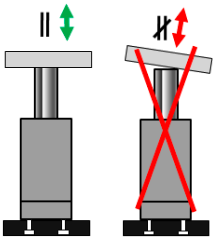
- Maximum lifetime: over 3 million strokes possible!
- Innovative sealing materials
- FEM-calculated and overload-proof case design
- Maximum operational safety thanks to internal piston stop
- Life time lubrication
- Cross-positioned piston rod in housing to absorb shear forces
- Simpler and safer replacement of the seal package
- Immediate availability

Installation instructions



The nitrogen cylinder must be screwed on at the base and never at the piston. Screws with the strength class 8.8 are recommended for tightening. The tightening torques are to be selected according to VDI 2230.

The threads in the piston surface are only meant for assembly and no other parts may be screwed on to it.

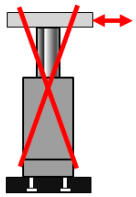


The nitrogen cylinder must be installed at a right angle to the acting force.

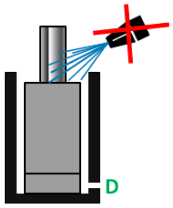
The piston rod surface must be completely impinged. The contact area must be hardened. (Resistance against pushing in)

Nitrogen cylinders should not be pre-loaded in the tool. If pre-loaded nitrogen cylinders are built into a tool, mechanical safety stroke limiters have to be installed to prevent the sudden decompression of the nitrogen cylinders.

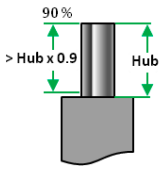
A clearly visible safety notice has to be attached to the outside of the tool.



Lateral forces should be avoided completely.

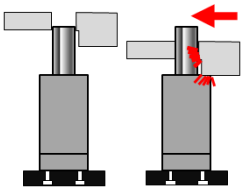


When installed in counterbores, there must be a circumferential gap of at least 1.5 mm between the nitrogen cylinder and the walls. The release of liquid by means of a drainage bore (D) must be possible. The piston rod must be protected from contact with liquids and mechanical damage.

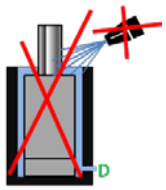


A stroke reserve of 10 % of the nominal stroke must be provided. For nitrogen cylinders with a nominal value ≤ 10 mm, a stroke reserve of at least 1 mm must be provided.

Safety instructions



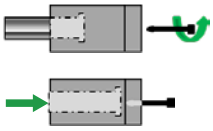
It is important to make sure that the nitrogen cylinder in the tool does not touch movable parts.



Protect the piston rod from contact with liquids.

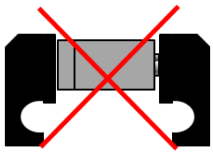
The maximum filling pressure specified on the nitrogen cylinder may not be exceeded. (Reference temperature 20 °C/68 °F).

The maximum operating temperature of 80 °C/176 °F at the nitrogen cylinder should not be exceeded. Exceeding the limit will negatively impact the life time.

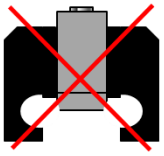


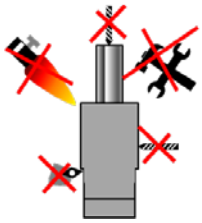
Prior to dispatch, used nitrogen cylinders must be emptied with the designated discharging screw. When emptying, point the filling opening away from the operator. To make sure that the nitrogen cylinder is fully decompressed, completely push the piston in by hand.

Repairs and the opening of the nitrogen cylinder may only be performed by trained professionals. Never open the nitrogen cylinder without checking that it is completely decompressed.



For clamping of the nitrogen cylinder, always use an appropriate fixture (jaw chuck, vise jaw with tread).





Nitrogen cylinders with signs of damage may not be used.

The tool should be checked if a safety system was triggered at the nitrogen cylinder, The affected nitrogen cylinders may not be used any more.

If the nitrogen cylinder is prevented from an even return stroke by jamming parts, a sudden, unabated decompression could lead to damage to or failure of the nitrogen cylinder.

The nitrogen cylinder may **not** be machined mechanically or thermally.

Use only nitrogen N_2 for filling the nitrogen cylinder.

Nitrogen cylinders – Overview

STEINEL®

SZ 8080.1* / SZ 8080.2**	Ø			Stroke in mm																		B	V	VB	VZ	PD
	mm	daN	daN	5	10	15	19	25	32	38	50	63	80	100	125	160	170	180	200	240						
	19	100	160	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•						
	25	200	320	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•						
	32	350	560	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•					
	38	500	800	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•					
	50	1000	1600	•		•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
	63	1500	2400	•		•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
	75	2500	4000	•		•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
	95	4000	6400	•		•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
	120	6500	10400					•	•		•	•		•	•	•	•	•	•	•	•	•	•	•			

SZ 7080.1* / SZ 7080.2**	Ø			Stroke in mm																		B	V	VB	VZ	PD
	mm	daN	daN	5	10	15	19	25	32	38	50	63	80	100	125	160	170	180	200	240						
	19	150	240	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•						
	25	300	480	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•						
	32	500	800	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•					
	38	750	1200	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•					
	50	1500	2400	•		•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
	63	2000	3200	•		•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
	75	3000	4800	•		•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
	95	5000	8000	•		•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			

SZ 8066.1* / SZ 8066.2**	Ø			Stroke in mm																		B	V	VB	VZ	PD
	mm	daN	daN	5	10	15	19	25	32	38	50	63	80	100	125	160	170	180	200	240						
	19	100	160	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•						
	25	200	320	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•						
	32	350	560	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•					
	38	500	800	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
	50	1000	1600	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
	63	1500	2400	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
	75	2500	4000	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
	95	4000	6400	•		•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
	120	6500	10400					•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		

SZ 7066.1* / SZ 7066.2**	Ø			Stroke in mm																		B	V	VB	VZ	PD
	mm	daN	daN	5	10	15	19	25	32	38	50	63	80	100	125	160	170	180	200	240						
	19	150	240	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•						
	25	300	480	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•						
	32	500	800	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•					
	38	750	1200	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•					
	50	1500	2400	•		•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
	63	2000	3200	•		•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
	75	3000	4800	•		•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
	95	5000	8000	•		•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			

SZ 8065.1* / SZ 8065.2**	Ø			Stroke in mm																		B	V	VB	VZ	PD
	mm	daN	daN	5	10	15	19	25	32	38	50	63	80	100	125	160	170	180	200	240						
	19	150	240		•	•	•		•	•		•	•	•	•	•	•										
	25	300	480		•	•	•		•	•		•	•	•	•	•	•										
	32	500	800		•	•	•		•	•		•	•	•	•	•	•										
	38	1000	1600		•	•	•		•	•		•	•	•	•	•	•										
	50	2000	3200		•	•	•		•	•		•	•	•	•	•	•										
	63	3000	4800		•	•	•		•	•		•	•	•	•	•	•										
	75	5000	8000		•	•	•		•	•		•	•	•	•	•	•										
	95	8000	12800		•	•	•		•	•		•	•	•	•	•	•										

Nitrogen cylinders – Overview

STEINEL®

SZ 8063.1	Ø			Stroke in mm																	B	V	VB	VZ	PD
	mm	daN	daN	5	10	15	19	25	32	38	50	63	80	100	125	160	170	180	200	240					
	19	170	270	•	•	•	•	•	•	•	•	•	•	•	•										
	25	300	480	•	•	•	•	•	•	•	•	•	•	•	•										
	32	500	800	•	•	•	•	•	•	•	•	•	•	•	•						•				•
	38	750	1200	•	•	•	•	•	•	•	•	•	•	•	•						•	•	•	•	•
	50	1500	2400	•	•	•	•	•	•	•	•	•	•	•	•						•	•	•	•	•
	63	2000	3200	•	•	•	•	•	•	•	•	•	•	•	•						•	•	•	•	•
	75	3000	4800	•	•	•	•	•	•	•	•	•	•	•	•						•	•	•	•	•
	95	5000	8000	•	•	•	•	•	•	•	•	•	•	•	•						•	•	•	•	•

SZ 8060.1* SZ 8060.2**	Ø			Stroke in mm																	V	B	VB	VZ	PD
	mm	daN	daN	5	10	15	19	25	32	38	50	63	80	100	125	160	170	180	200	240					
	19	–	–																						
	25	400	730		•	•	•		•	•				•	•										
	32	700	1230		•	•	•		•	•				•	•							•	•			•
	38	1000	1710		•	•	•		•	•				•	•						•	•	•	•	•	•
	50	2000	3400		•	•	•		•	•				•	•						•	•	•	•	•	•
	63	3000	4800		•	•	•		•	•				•	•						•	•	•	•	•	•
	75	4000	6400		•	•	•		•	•				•	•						•	•	•	•	•	•
	95	7000	11200		•	•	•		•	•				•	•						•	•	•	•	•	•
	120	10000	16000		•	•	•		•	•				•	•						•	•	•	•	•	•

* Nitrogen cylinders are available from stock until at least 01/04/2016, subject to being sold.
** Special designs and intermediate strokes upon request.

SZ xxxx.2.**B** Nitrogen cylinder with integrated burst protection

SZ xxxx.2.**V** Nitrogen cylinder for the tube composite system

SZ xxxx.2.**VB** Nitrogen cylinder for the tube composite system with burst protection

SZ xxxx.2.**VZ** Nitrogen cylinder for the tube composite system with two connections and burst protection

SZ xxxx.2.**PD** Nitrogen cylinder for the direct composite plate system

Nitrogen cylinders SZ 8080.2

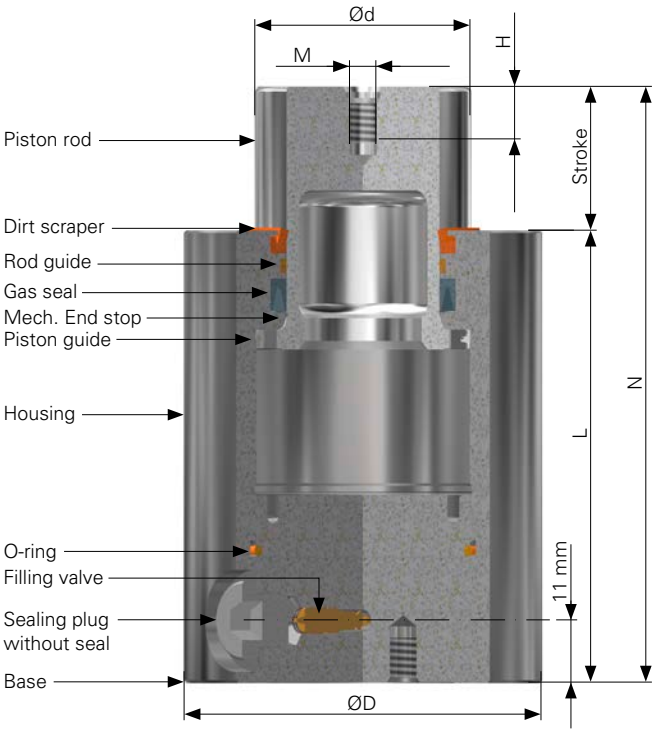
Explanation:
STEINEL nitrogen cylinders **SZ 8080.2** are filled with standard nitrogen.
Nitrogen N_2 is a neutral, non-hazardous gas.

Special features:
- Each nitrogen cylinder forms a functional, closed unit **(autonomous nitrogen cylinder)**
- Maximum force in the smallest of spaces
- Easy to assemble
- No spring breakage
- Recommended stroke reserve of 10 %
- No mechanical preload is necessary
- Easy to use

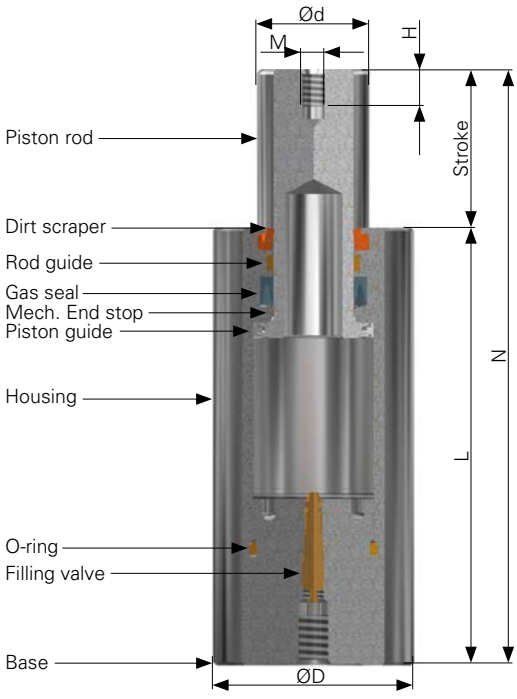
Note:
Nitrogen cylinders with a diameter of 50 mm or more have a valve on the side that is closed with a sealing plug. If not explicitly stated otherwise, the nitrogen cylinder will be delivered in filled condition. The valve must be removed if the nitrogen cylinder is to be connected to others. To do this, empty the nitrogen cylinder by means of the discharging screw SZ 7046.7 and screw out the valve with the valve key K100-000-0300. If the nitrogen cylinder is not immediately linked to others, close the connection with the sealing plug. Nitrogen cylinders specifically designed for being used in a multiple-cylinder system, even with diameters starting at 38 mm, are listed in the section Nitrogen cylinders V, VB and VZ.

Order example: Nitrogen cylinder **SZ 8080.2**
with a D = 50 mm and a stroke of 100 mm.
Addition **050 x 100**
Order number **SZ 8080.2.050 x 100**

Nitrogen cylinder from Ø50



Nitrogen cylinder from Ø19–Ø38

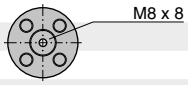
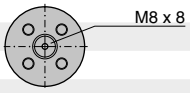
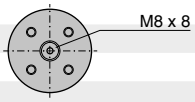
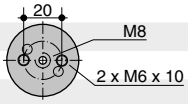
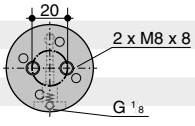


Nitrogen cylinders SZ 8080.2

STEINEL®

Add size to order number

Nitrogen cylinder — Order number **SZ 8080.2.** ☐ x ☐

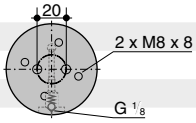
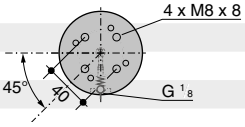
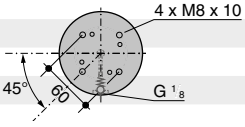
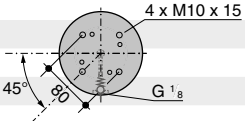
D	Stroke	L	N±0.2	d	M	H							
										Filling thread	Pos. Filling thread	Cylinder mounting	
mm	mm	mm	mm	mm	mm	mm	bar	daN	daN				
19	5	65	70	11	–	–	105	100	160	M8	Centred		**019 x 005**
	10	70	80										**019 x 010**
	15	75	90										**019 x 015**
	19	79	98										**019 x 019**
	25	85	110										**019 x 025**
	32	92	124										**019 x 032**
	38	98	136										**019 x 038**
	50	110	160										**019 x 050**
	63	123	186										**019 x 063**
	80	140	220										**019 x 080**
	100	160	260										**019 x 100**
	125	185	310										**019 x 125**
25	5	65	70	14	–	–	129	200	320	M8	Centred		**025 x 005**
	10	70	80		–	–							**025 x 010**
	15	75	90		–	–							**025 x 015**
	19	79	98		–	–							**025 x 019**
	25	85	110		M6	6							**025 x 025**
	32	92	124		M6	6							**025 x 032**
	38	98	136		M6	6							**025 x 038**
	50	110	160		M6	6							**025 x 050**
	63	123	186		M6	6							**025 x 063**
	80	140	220		M6	6							**025 x 080**
	100	160	260		M6	6							**025 x 100**
	125	185	310		M6	6							**025 x 125**
32	5	55	60	18	M6	6	137	350	560	M8	Centred		**032 x 005**
	10	60	70										**032 x 010**
	15	65	80										**032 x 015**
	19	69	88										**032 x 019**
	25	75	100										**032 x 025**
	32	82	114										**032 x 032**
	38	88	126										**032 x 038**
	50	100	150										**032 x 050**
	63	113	176										**032 x 063**
	80	130	210										**032 x 080**
	100	150	250										**032 x 100**
	125	175	300										**032 x 125**
38	5	60	65	22	M6	6	131	500	800	M8	Centred		**038 x 005**
	10	65	75										**038 x 010**
	15	70	85										**038 x 015**
	19	74	93										**038 x 019**
	25	80	105										**038 x 025**
	32	87	119										**038 x 032**
	38	93	131										**038 x 038**
	50	105	155										**038 x 050**
	63	118	181										**038 x 063**
	80	140	220										**038 x 080**
	100	155	255										**038 x 100**
	125	180	305										**038 x 125**
50	5	90	95	30	M8	10	141	1000	1600	G1/8	On the side		**050 x 005**
	10	95	105										**050 x 010**
	15	100	115										**050 x 015**
	19	104	123										**050 x 019**
	25	110	135										**050 x 025**
	32	117	149										**050 x 032**
	38	123	161										**050 x 038**
	50	135	185										**050 x 050**
	63	148	211										**050 x 063**
	80	165	245										**050 x 080**
	100	195	295										**050 x 100**
	125	220	345										**050 x 125**
	160*	255	415										**050 x 160**
	200*	295	495										**050 x 200**

* Special and intermediate strokes upon request

Nitrogen cylinders SZ 8080.2

Add size to order number

Nitrogen cylinder — Order number **SZ 8080.2.** ☐ x ☐

D	Stroke	L	N±0.2	d	M	H				Filling thread	Pos. Filling thread	Cylinder mounting	
mm	mm	mm	mm	mm	mm	mm	bar	daN	daN				
63	5	90	95	38	M8	10	132	1500	2400	G1/8	On the side		**063 x 005**
	10	95	105										**063 x 010**
	15	100	115										**063 x 015**
	19	104	123										**063 x 019**
	25	110	135										**063 x 025**
	32	117	149										**063 x 032**
	38	123	161										**063 x 038**
	50	135	185										**063 x 050**
	63	148	211										**063 x 063**
	80	165	245										**063 x 080**
	100	185	285										**063 x 100**
	125	220	345										**063 x 125**
	160*	255	415										**063 x 160**
	200*	295	495										**063 x 200**
75	5	100	105	45	M8	10	157	2500	4000	G1/8	On the side		**075 x 005**
	10	105	115										**075 x 010**
	15	110	125										**075 x 015**
	19	114	133										**075 x 019**
	25	120	145										**075 x 025**
	32	127	159										**075 x 032**
	38	133	171										**075 x 038**
	50	145	195										**075 x 050**
	63	158	221										**075 x 063**
	80	175	255										**075 x 080**
	100	200	300										**075 x 100**
	125	225	350										**075 x 125**
	160*	265	425										**075 x 160**
	200*	310	510										**075 x 200**
95	5	110	115	55	M8	10	168	4000	6400	G1/8	On the side		**095 x 005**
	10	115	125										**095 x 010**
	15	120	135										**095 x 015**
	19	124	143										**095 x 019**
	25	130	155										**095 x 025**
	32	137	169										**095 x 032**
	38	142	180										**095 x 038**
	50	155	205										**095 x 050**
	63	168	231										**095 x 063**
	80	190	270										**095 x 080**
	100	210	310										**095 x 100**
	125	245	370										**095 x 125**
	160*	280	440										**095 x 160**
	200*	330	530										**095 x 200**
120	25	140	165	75	M8	12	147	6500	10400	G1/8	On the side		**120 x 025**
	50	165	215										**120 x 050**
	80	195	275										**120 x 080**
	100	215	315										**120 x 100**
	125	250	375										**120 x 125**
	160*	290	450										**120 x 160**
	200*	340	540										**120 x 200**

* Special and intermediate strokes upon request

Nitrogen cylinders SZ 8080.2.B

with integrated burst protection

Explanation:
STEINEL nitrogen cylinders **SZ 8080.2.B** can be filled with standard nitrogen.
Nitrogen N_2 is a neutral, non-hazardous gas.

Special features:
- Integrated burst protection
- Each nitrogen cylinder forms a functional, closed unit **(autonomous nitrogen cylinder)**
- Maximum force in the smallest of spaces
- Easy to assemble
- No spring breakage
- Recommended stroke reserve of 10 %
- No mechanical preload is necessary
- Easy to use

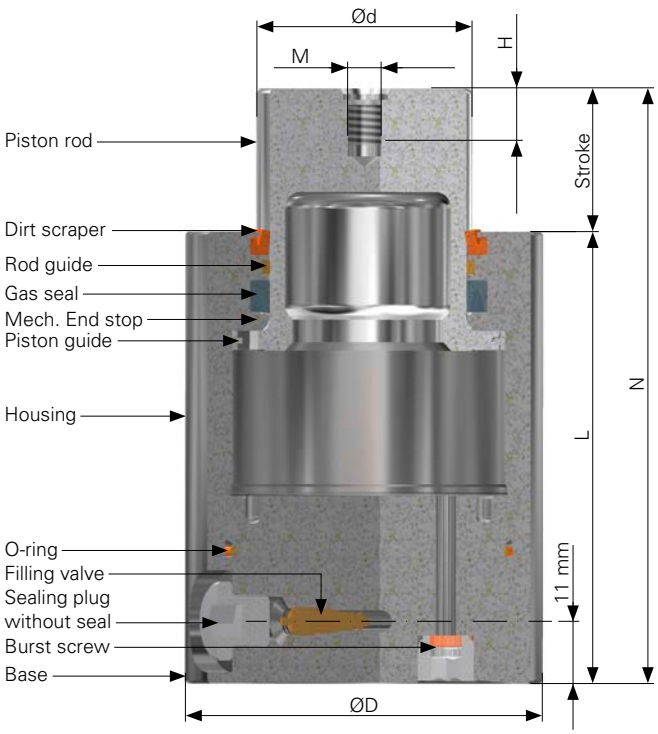
Advantages:
- By using a burst screw, the nitrogen cylinder is protected from overpressure damage
- Prevents consequential damage to nitrogen cylinder and tool
- After replacement of the burst screw, a nitrogen cylinder can be filled and used again
- Integrated part

Information for users:
- If the burst pressure is surpassed, forced ventilation occurs and the working pressure is released
- Following breakage, burst screws are unusable
- Burst screws are labelled with the burst pressure, which is legible even following breakage
- An activated burst screw can be replaced by trained personnel

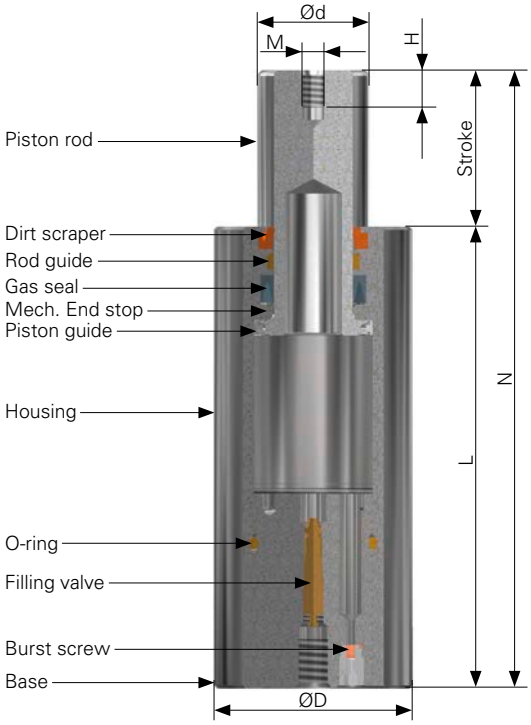
Order example: Nitrogen cylinder **SZ 8080.2**
with a D = 50 mm and a stroke of 100 mm.
Addition **050 x 100**
Order number **SZ 8080.2.050 x 100 B**

You can find further information on burst protection on page 5.150

Nitrogen cylinder from Ø50



Nitrogen cylinder from Ø32–Ø38



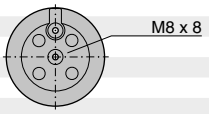
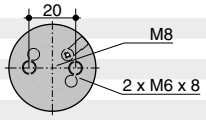
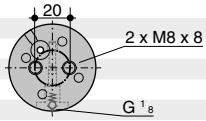
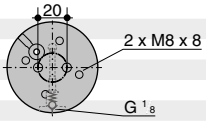
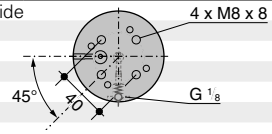
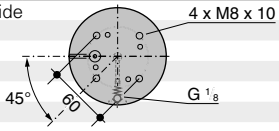
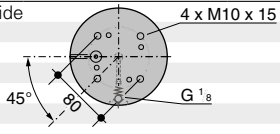
Nitrogen cylinders SZ 8080.2.B

with integrated burst protection

STEINEL®

Add size to the order number

Nitrogen cylinder — Order number **SZ 8080.2. ☐ x ☐ B**

D	Stroke	L	N±0.2	d	M	H				Burst pressure	Filling thread	Pos. Filling thread	Cylinder mounting	
mm	mm	mm	mm	mm	mm	mm	bar	daN	daN	bar				
32	5	55	60	18	M6	6	137	350	560	380	M8	Centred		032 x 005 B
	10	60	70											032 x 010 B
	15	65	80											032 x 015 B
	19	69	88											032 x 019 B
	25	75	100											032 x 025 B
	32	82	114											032 x 032 B
	38	88	126											032 x 038 B
	50	100	150											032 x 050 B
	63	113	176											032 x 063 B
	80	130	210											032 x 080 B
	100	150	250											032 x 100 B
	125	175	300											032 x 125 B
38	5	60	65	22	M6	6	131	500	800	380	M8	Centred		038 x 005 B
	10	65	75											038 x 010 B
	15	70	85											038 x 015 B
	19	74	93											038 x 019 B
	25	80	105											038 x 025 B
	32	87	119											038 x 032 B
	38	93	131											038 x 038 B
	50	105	155											038 x 050 B
	63	118	181											038 x 063 B
	80	140	220											038 x 080 B
	100	155	255											038 x 100 B
	125	180	305											038 x 125 B
50	5	90	95	30	M8	10	141	1000	1167	380	G1/8	On the side		050 x 005 B
	10	95	105						1252					050 x 010 B
	15	100	115						1290					050 x 015 B
	19	104	123						1312					050 x 019 B
	25	110	135						1385					050 x 025 B
	32	117	149						1421					050 x 032 B
	38	123	161						1439					050 x 038 B
	50	135	185						1469					050 x 050 B
	63	148	211						1491					050 x 063 B
	80	165	245						1510					050 x 080 B
	100	195	295						1529					050 x 100 B
	125	220	345						1538					050 x 125 B
	160*	255	415						1600					050 x 160 B
	200*	295	495						1600					050 x 200 B
63	5	90	95	38	M8	10	132	1500	2400	380	G1/8	On the side		063 x 005 B
	10	95	105											063 x 010 B
	15	100	115											063 x 015 B
	19	104	123											063 x 019 B
	25	110	135											063 x 025 B
	32	117	149											063 x 032 B
	38	123	161											063 x 038 B
	50	135	185											063 x 050 B
	63	148	211											063 x 063 B
	80	165	245											063 x 080 B
	100	185	285											063 x 100 B
	125	220	345											063 x 125 B
	160*	255	415											063 x 160 B
	200*	295	495											063 x 200 B
75	5	100	105	45	M8	10	157	2500	4000	400	G1/8	On the side		075 x 005 B
	10	105	115											075 x 010 B
	15	110	125											075 x 015 B
	19	114	133											075 x 019 B
	25	120	145											075 x 025 B
	32	127	159											075 x 032 B
	38	133	171											075 x 038 B
	50	145	195											075 x 050 B
	63	158	221											075 x 063 B
	80	175	255											075 x 080 B
	100	200	300											075 x 100 B
	125	225	350											075 x 125 B
	160*	265	425											075 x 160 B
	200*	310	510											075 x 200 B
95	5	110	115	55	M8	10	168	4000	6400	470	G1/8	On the side		095 x 005 B
	10	115	125											095 x 010 B
	15	120	135											095 x 015 B
	19	124	143											095 x 019 B
	25	130	155											095 x 025 B
	32	137	169											095 x 032 B
	38	142	180											095 x 038 B
	50	155	205											095 x 050 B
	63	168	231											095 x 063 B
	80	190	270											095 x 080 B
	100	210	310											095 x 100 B
	125	245	370											095 x 125 B
	160*	280	440											095 x 160 B
	200*	330	530											095 x 200 B
120	25	140	165	75	M8	12	147	6500	10400	350	G1/8	On the side		120 x 025 B
	50	165	215											120 x 050 B
	80	195	275											120 x 080 B
	100	215	315											120 x 100 B
	125	250	375											120 x 125 B
	160*	290	450											120 x 160 B
	200*	340	540											120 x 200 B

* Special and intermediate strokes upon request

Nitrogen cylinders SZ 8080.2.V

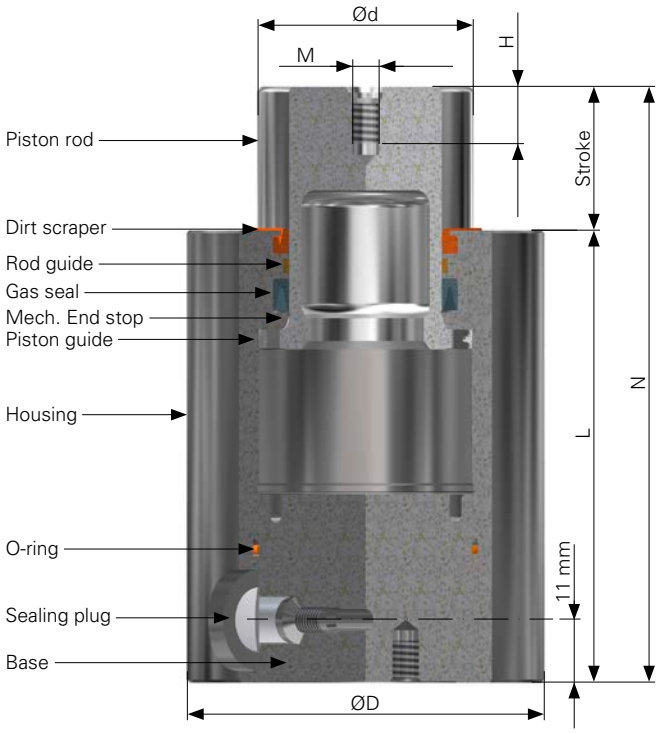
connecting nitrogen cylinders

Explanation:
STEINEL nitrogen cylinders **SZ 8080.2.V** can be filled with standard nitrogen.
Nitrogen N_2 is a neutral, non-hazardous gas.

Special features:
- The nitrogen cylinders will be delivered unfilled without a valve
- Maximum force in the smallest of spaces
- Easy to assemble
- No spring breakage
- Recommended stroke reserve of 10 %
- No mechanical preload is necessary
- Easy to use

Multiple-cylinder system:
- The nitrogen cylinders are equipped to be connected on their sides with G1/8 male stud couplings.
- The connection for two screw-on threads is at 90° and at 45° for four screw-on threads.
- The nitrogen cylinders are filled through a connected control panel.

Order example: Nitrogen cylinder **SZ 8080.2**
with a D = 50 mm and a stroke of 100 mm.
Addition **050 x 100 V**
Order number **SZ 8080.2.050 x 100 V**

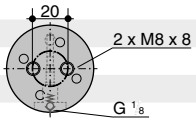
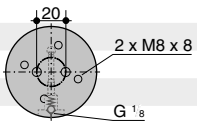
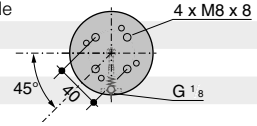
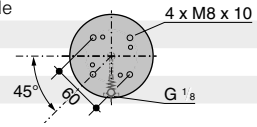
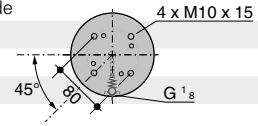


Nitrogen cylinders SZ 8080.2.V

connecting nitrogen cylinders

Add size to order number

Nitrogen cylinder — Order number **SZ 8080.2. ☐ x ☐ V**

D	Stroke	L	N±0.2	d	M	H					Pos.		
										Connecting	Connecting	Cylinder	
mm	mm	mm	mm	mm	mm	mm	bar	daN	daN	thread	thread	mounting	
50	5	90	95	30	M8	10	141	1000	1600	G1/8	On the side		**050 x 005 V**
	10	95	105										**050 x 010 V**
	15	100	115										**050 x 015 V**
	19	104	123										**050 x 019 V**
	25	110	135										**050 x 025 V**
	32	117	149										**050 x 032 V**
	38	123	161										**050 x 038 V**
	50	135	185										**050 x 050 V**
	63	148	211										**050 x 063 V**
	80	165	245										**050 x 080 V**
	100	195	295										**050 x 100 V**
	125	220	345										**050 x 125 V**
	160*	255	415										**050 x 160 V**
	200*	295	495										**050 x 200 V**
63	5	90	95	38	M8	10	132	1500	2400	G1/8	On the side		**063 x 005 V**
	10	95	105										**063 x 010 V**
	15	100	115										**063 x 015 V**
	19	104	123										**063 x 019 V**
	25	110	135										**063 x 025 V**
	32	117	149										**063 x 032 V**
	38	123	161										**063 x 038 V**
	50	135	185										**063 x 050 V**
	63	148	211										**063 x 063 V**
	80	165	245										**063 x 080 V**
	100	185	285										**063 x 100 V**
	125	220	345										**063 x 125 V**
	160*	255	415										**063 x 160 V**
	200*	295	495										**063 x 200 V**
75	5	100	105	45	M8	10	157	2500	4000	G1/8	On the side		**075 x 005 V**
	10	105	115										**075 x 010 V**
	15	110	125										**075 x 015 V**
	19	114	133										**075 x 019 V**
	25	120	145										**075 x 025 V**
	32	127	159										**075 x 032 V**
	38	133	171										**075 x 038 V**
	50	145	195										**075 x 050 V**
	63	158	221										**075 x 063 V**
	80	175	255										**075 x 080 V**
	100	200	300										**075 x 100 V**
	125	225	350										**075 x 125 V**
	160*	265	425										**075 x 160 V**
	200*	310	510										**075 x 200 V**
95	5	110	115	55	M8	10	168	4000	6400	G1/8	On the side		**095 x 005 V**
	10	115	125										**095 x 010 V**
	15	120	135										**095 x 015 V**
	19	124	143										**095 x 019 V**
	25	130	155										**095 x 025 V**
	32	137	169										**095 x 032 V**
	38	142	180										**095 x 038 V**
	50	155	205										**095 x 050 V**
	63	168	231										**095 x 063 V**
	80	190	270										**095 x 080 V**
	100	210	310										**095 x 100 V**
	125	245	370										**095 x 125 V**
	160*	280	440										**095 x 160 V**
	200*	330	530										**095 x 200 V**
120	25	140	165	75	M8	12	147	6500	10400	G1/8	On the side		**120 x 025 V**
	50	165	215										**120 x 050 V**
	80	195	275										**120 x 080 V**
	100	215	315										**120 x 100 V**
	125	250	375										**120 x 125 V**
	160*	290	450										**120 x 160 V**
	200*	340	540										**120 x 200 V**

* Special and intermediate strokes upon request

Nitrogen cylinders SZ 8080.2.VB

connecting nitrogen cylinders, with integrated burst protection

Explanation
STEINEL nitrogen cylinders **SZ 8080.2.VB** can be filled with standard nitrogen. Nitrogen N_2 is a neutral, non-hazardous gas.

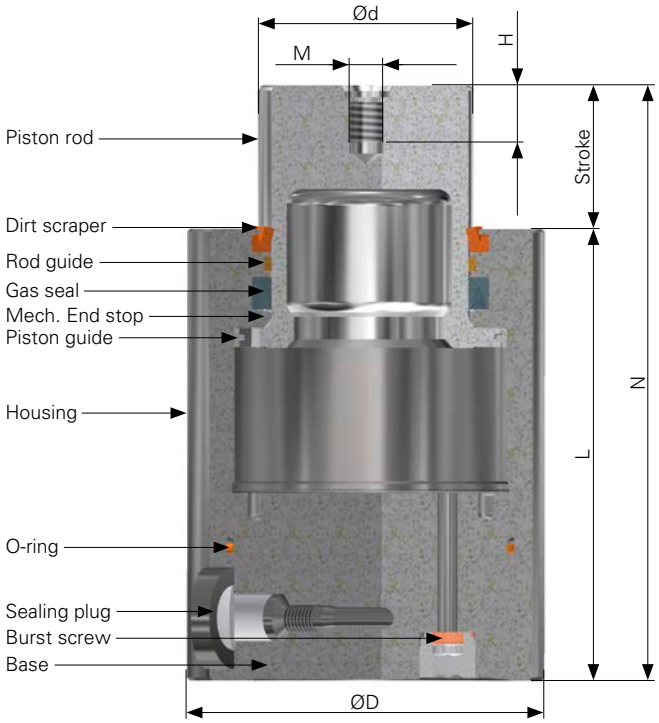
Special features:
- The nitrogen cylinders will be delivered unfilled
- With integrated burst protection
- Maximum force in the smallest of spaces
- Easy to assemble
- No spring breakage
- Recommended stroke reserve of 10 %
- No mechanical preload is necessary
- Easy to use

Advantages:
- By using a burst screw, the nitrogen cylinder is protected from overpressure damage
- Prevents consequential damage to nitrogen cylinder and tool
- After replacement of the burst screw, a nitrogen cylinder can be filled and used again
- Integrated part

Information for users:
- If the burst pressure is surpassed, forced ventilation occurs and the working pressure is released.
- Following breakage, burst screws are unusable.
- Burst screws are labelled with the burst pressure, which is legible even following breakage.
- An activated burst screw can be replaced by trained personnel.

Order example: Nitrogen cylinder **SZ 8080.2** with a D = 50 mm and a stroke of 100 mm.
Addition **050 x 100 VB**
Order number **SZ 8080.2.050 x 100 VB**

You can find further information on burst protection on page 5.150

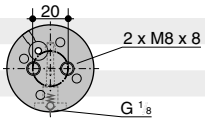
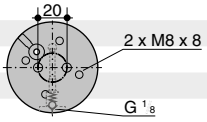
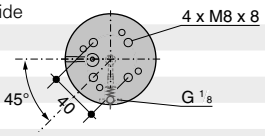
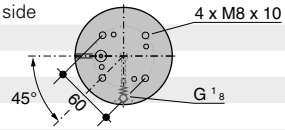
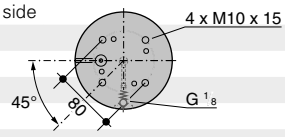


Nitrogen cylinders SZ 8080.2.VB

connecting nitrogen cylinders, with integrated burst protection

Add size to order number

Nitrogen cylinder — Order number **SZ 8080.2.** ☐ x ☐ **VB**

D	Stroke	L	N±0.2	d	M	H				Burst pressure	Connecting thread	Pos. Connecting thread	Cylinder mounting	
mm	mm	mm	mm	mm	mm	mm	bar	daN	daN	bar				
50	5	90	95	30	M8	10	141	1000	1167	380	G1/8	On the side		050 x 005 VB
	10	95	105						1252					050 x 010 VB
	15	100	115						1290					050 x 015 VB
	19	104	123						1312					050 x 019 VB
	25	110	135						1385					050 x 025 VB
	32	117	149						1421					050 x 032 VB
	38	123	161						1439					050 x 038 VB
	50	135	185						1469					050 x 050 VB
	63	148	211						1491					050 x 063 VB
	80	165	245						1510					050 x 080 VB
	100	195	295						1529					050 x 100 VB
	125	220	345						1538					050 x 125 VB
	160*	255	415						1600					050 x 160 VB
	200*	295	495						1600					050 x 200 VB
63	5	90	95	38	M8	10	132	1500	2400	380	G1/8	On the side		063 x 005 VB
	10	95	105											063 x 010 VB
	15	100	115											063 x 015 VB
	19	104	123											063 x 019 VB
	25	110	135											063 x 025 VB
	32	117	149											063 x 032 VB
	38	123	161											063 x 038 VB
	50	135	185											063 x 050 VB
	63	148	211											063 x 063 VB
	80	165	245											063 x 080 VB
	100	185	285											063 x 100 VB
	125	220	345											063 x 125 VB
	160*	255	415											063 x 160 VB
	200*	295	495											063 x 200 VB
75	5	100	105	45	M8	10	157	2500	4000	400	G1/8	On the side		075 x 005 VB
	10	105	115											075 x 010 VB
	15	110	125											075 x 015 VB
	19	114	133											075 x 019 VB
	25	120	145											075 x 025 VB
	32	127	159											075 x 032 VB
	38	133	171											075 x 038 VB
	50	145	195											075 x 050 VB
	63	158	221											075 x 063 VB
	80	175	255											075 x 080 VB
	100	200	300											075 x 100 VB
	125	225	350											075 x 125 VB
	160*	265	425											075 x 160 VB
	200*	310	510											075 x 200 VB
95	5	110	115	55	M8	10	168	4000	6400	470	G1/8	On the side		095 x 005 VB
	10	115	125											095 x 010 VB
	15	120	135											095 x 015 VB
	19	124	143											095 x 019 VB
	25	130	155											095 x 025 VB
	32	137	169											095 x 032 VB
	38	142	180											095 x 038 VB
	50	155	205											095 x 050 VB
	63	168	231											095 x 063 VB
	80	190	270											095 x 080 VB
	100	210	310											095 x 100 VB
	125	245	370											095 x 125 VB
	160*	280	440											095 x 160 VB
	200*	330	530											095 x 200 VB
120	25	140	165	75	M8	12	147	6500	10400	350	G1/8	On the side		120 x 025 VB
	50	165	215											120 x 050 VB
	80	195	275											120 x 080 VB
	100	215	315											120 x 100 VB
	125	250	375											120 x 125 VB
	160*	290	450											120 x 160 VB
	200*	340	540											120 x 200 VB

* Special and intermediate strokes upon request

The nitrogen cylinders will be delivered unfilled.

Nitrogen cylinders SZ 7080.2

extra heavy load

Explanation:
STEINEL nitrogen cylinders **SZ 7080.2** can be filled with standard nitrogen.
Nitrogen N_2 is a neutral, non-hazardous gas.

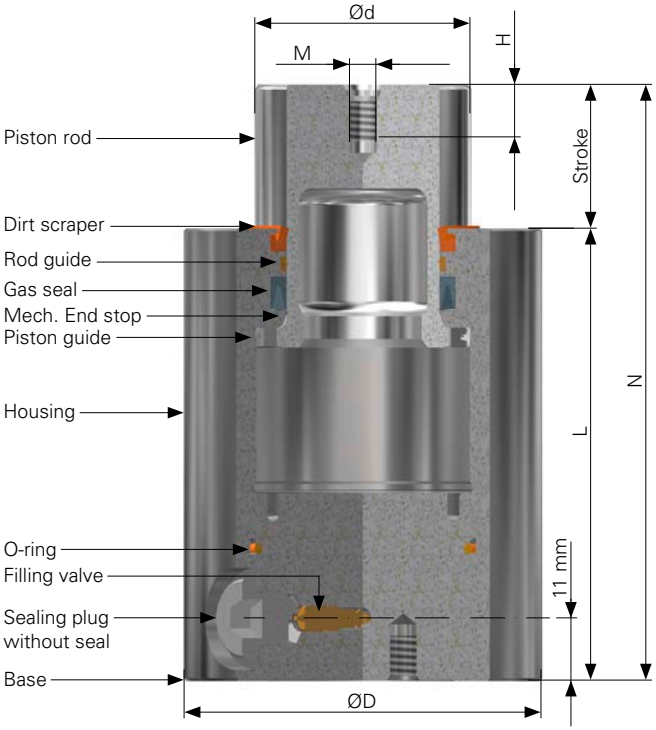
Special features:

- Each nitrogen cylinder forms a functional, closed unit **(autonomous nitrogen cylinder)**
- Maximum force in the smallest of spaces
- Easy to assemble
- No spring breakage
- Recommended stroke reserve of 10 %
- No mechanical preload is necessary
- Easy to use

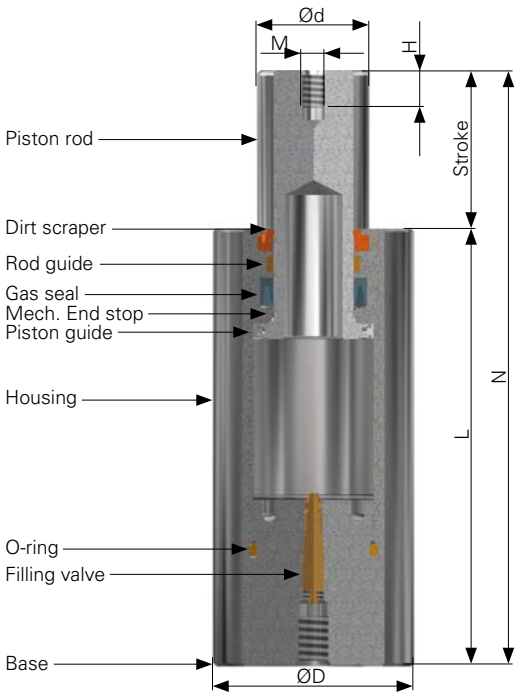
Note:
Nitrogen cylinders with a diameter of 50 mm or more have a valve on the side that is closed with a sealing plug. If not explicitly stated otherwise, the nitrogen cylinder will be delivered in filled condition. The valve must be removed if the nitrogen cylinder is to be connected with others. To do this, empty the nitrogen cylinder by means of the discharging screw SZ 7046.7 and screw out the valve with the valve key K100-000-0300. If the nitrogen cylinder is not immediately linked to others, close the connection with the sealing plug. Nitrogen cylinders specifically designed for being used in a multiple-cylinder system, even with diameters starting at 38 mm, are listed in the section Nitrogen cylinders V, VB and VZ.

Order example: Nitrogen cylinder **SZ 7080.2**
with a D = 50 mm and a stroke of 100 mm.
Addition **050 x 100**
Order number **SZ 7080.2.050 x 100**

Nitrogen cylinder from Ø50



Nitrogen cylinder from Ø19–Ø38



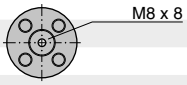
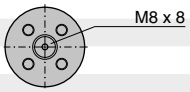
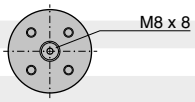
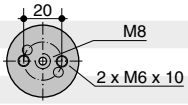
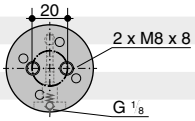
Nitrogen cylinders SZ 7080.2

extra heavy load

STEINEL®

Add size to order number

Nitrogen cylinder — Order number **SZ 7080.2.** ☐ x ☐

D	Stroke	L	N±0.2	d	M	H					Pos. Filling thread	Cylinder mounting	
										Filling thread			
mm	mm	mm	mm	mm	mm	mm	bar	daN	daN				
19	5	65	70	11	–	–	180	170	272	M8	Centred		019 x 005
	10	70	80										019 x 010
	15	75	90										019 x 015
	19	79	98										019 x 019
	25	85	110										019 x 025
	32	92	124										019 x 032
	38	98	136										019 x 038
	50	110	160										019 x 050
	63	123	186										019 x 063
	80	140	220										019 x 080
	100	160	260										019 x 100
	125	185	310										019 x 125
25	5	65	70	14	–	–	195	300	480	M8	Centred		025 x 005
	10	70	80		–	–							025 x 010
	15	75	90		–	–							025 x 015
	19	79	98		–	–							025 x 019
	25	85	110		M6	6							025 x 025
	32	92	124		M6	6							025 x 032
	38	98	136		M6	6							025 x 038
	50	110	160		M6	6							025 x 050
	63	123	186		M6	6							025 x 063
	80	140	220		M6	6							025 x 080
	100	160	260		M6	6							025 x 100
	125	185	310		M6	6							025 x 125
32	5	55	60	18	M6	6	196	500	800	M8	Centred		032 x 005
	10	60	70										032 x 010
	15	65	80										032 x 015
	19	69	88										032 x 019
	25	75	100										032 x 025
	32	82	114										032 x 032
	38	88	126										032 x 038
	50	100	150										032 x 050
	63	113	176										032 x 063
	80	130	210										032 x 080
	100	150	250										032 x 100
	125	175	300										032 x 125
38	5	60	65	22	M6	6	197	750	1200	M8	Centred		038 x 005
	10	65	75										038 x 010
	15	70	85										038 x 015
	19	74	93										038 x 019
	25	80	105										038 x 025
	32	87	119										038 x 032
	38	93	131										038 x 038
	50	105	155										038 x 050
	63	118	181										038 x 063
	80	140	220										038 x 080
	100	155	255										038 x 100
	125	180	305										038 x 125
50	5	90	95	30	M8	10	212	1500	2400	G1/8	On the side		050 x 005
	10	95	105										050 x 010
	15	100	115										050 x 015
	19	104	123										050 x 019
	25	110	135										050 x 025
	32	117	149										050 x 032
	38	123	161										050 x 038
	50	135	185										050 x 050
	63	148	211										050 x 063
	80	165	245										050 x 080
	100	195	295										050 x 100
	125	220	345										050 x 125
	160*	255	415										050 x 160
	200*	295	495										050 x 200

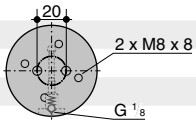
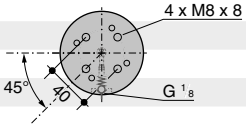
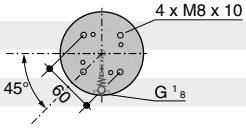
* Special and intermediate strokes upon request

Nitrogen cylinders SZ 7080.2

extra heavy load

Add size to order number

Nitrogen cylinder Order number **SZ 7080.2.** ☐ x ☐

D	Stroke	L	N±0.2	d	M	H				Filling	Pos. Filling	Cylinder mounting	
mm	mm	mm	mm	mm	mm	mm	bar	daN	daN	thread	thread		
63	5	90	95	38	M8	10	176	2000	3200	G1/8	On the side		**063 x 005**
	10	95	105										**063 x 010**
	15	100	115										**063 x 015**
	19	104	123										**063 x 019**
	25	110	135										**063 x 025**
	32	117	149										**063 x 032**
	38	123	161										**063 x 038**
	50	135	185										**063 x 050**
	63	148	211										**063 x 063**
	80	165	245										**063 x 080**
	100	185	285										**063 x 100**
	125	220	345										**063 x 125**
	160*	255	415										**063 x 160**
	200*	295	495										**063 x 200**
75	5	100	105	45	M8	10	189	3000	4800	G1/8	On the side		**075 x 005**
	10	105	115										**075 x 010**
	15	110	125										**075 x 015**
	19	114	133										**075 x 019**
	25	120	145										**075 x 025**
	32	127	159										**075 x 032**
	38	133	171										**075 x 038**
	50	145	195										**075 x 050**
	63	158	221										**075 x 063**
	80	175	255										**075 x 080**
	100	200	300										**075 x 100**
	125	225	350										**075 x 125**
	160*	265	425										**075 x 160**
	200*	310	510										**075 x 200**
95	5	110	115	55	M8	10	210	5000	8000	G1/8	On the side		**095 x 005**
	10	115	125										**095 x 010**
	15	120	135										**095 x 015**
	19	124	143										**095 x 019**
	25	130	155										**095 x 025**
	32	137	169										**095 x 032**
	38	142	180										**095 x 038**
	50	155	205										**095 x 050**
	63	168	231										**095 x 063**
	80	190	270										**095 x 080**
	100	210	310										**095 x 100**
	125	245	370										**095 x 125**
	160*	280	440										**095 x 160**
	200*	330	530										**095 x 200**

* Special and intermediate strokes upon request

Nitrogen cylinders SZ 7080.2.B

extra heavy load, with integrated burst protection

Explanation:
STEINEL nitrogen cylinders **SZ 7080.2.B** are filled with standard nitrogen.
Nitrogen N_2 is a neutral, non-hazardous gas.

Special features:
- Integrated burst protection
- Each nitrogen cylinder forms a functional, closed unit **(autonomous nitrogen cylinder)**
- Maximum force in the smallest of spaces
- Easy to assemble
- No spring breakage
- Recommended stroke reserve of 10 %
- No mechanical preload is necessary
- Easy to use

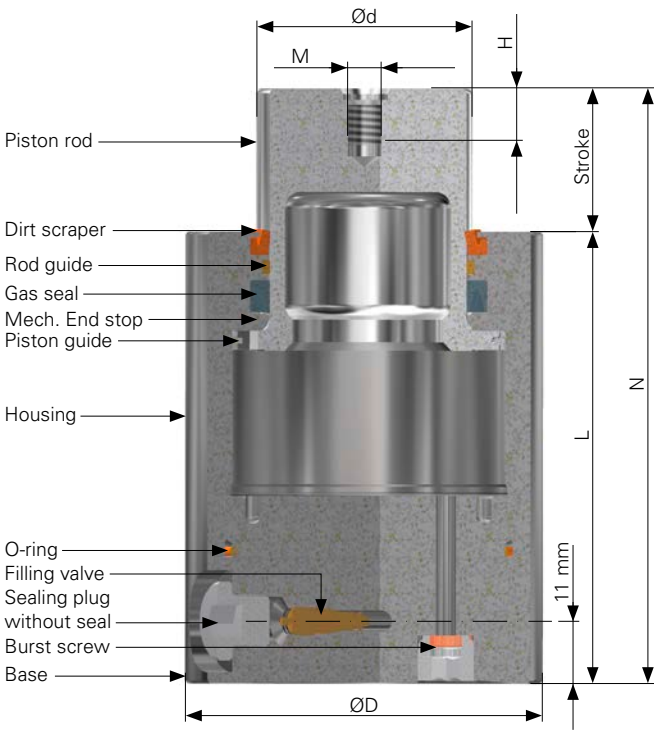
Advantages:
- By using a burst screw, the nitrogen cylinder is protected from overpressure damage
- Prevents consequential damage to nitrogen cylinder and tool
- After replacement of the burst screw, a nitrogen cylinder can be filled and used again
- Integrated part

Information for users:
- If the burst pressure is surpassed, forced ventilation occurs and the working pressure is released.
- Following breakage, burst screws are unusable.
- Burst screws are labelled with the burst pressure, which is legible even following breakage.
- An activated burst screw can be replaced by trained personnel.

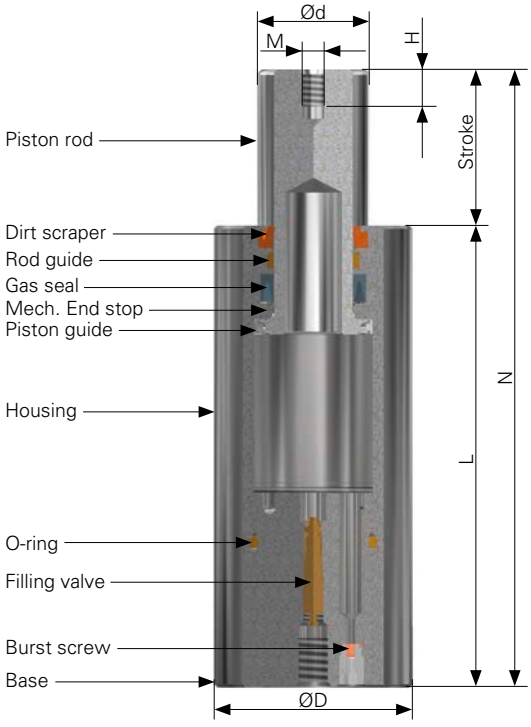
Order example: Nitrogen cylinder **SZ 7080.2**
with a D = 50 mm and a stroke of 100 mm.
Addition **050 x 100 B**
Order number **SZ 7080.2.050 x 100 B**

You can find further information on burst protection on page 5.150

Nitrogen cylinder from Ø50



Nitrogen cylinder from Ø32–Ø38

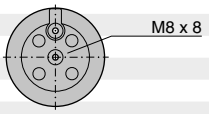
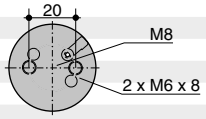
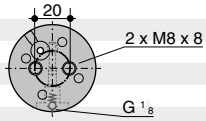
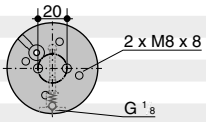
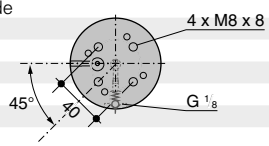
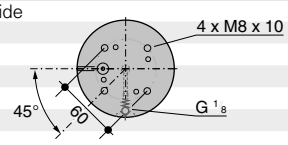


Nitrogen cylinders SZ 7080.2.B

extra heavy load, with integrated burst protection

Add size to order number

Nitrogen cylinder — Order number **SZ 7080.2.** ☐ x ☐ **B**

D	Stroke	L	N±0.2	d	M	H				Burst pressure	Filling thread	Pos. Filling thread	Cylinder mounting	
mm	mm	mm	mm	mm	mm	mm	bar	daN	daN	bar				
32	5	55	60	18	M6	6	196	500	800	470	M8	Centred		032 x 005 B
	10	60	70											032 x 010 B
	15	65	80											032 x 015 B
	19	69	88											032 x 019 B
	25	75	100											032 x 025 B
	32	82	114											032 x 032 B
	38	88	126											032 x 038 B
	50	100	150											032 x 050 B
	63	113	176											032 x 063 B
	80	130	210											032 x 080 B
	100	150	250											032 x 100 B
	125	175	300											032 x 125 B
38	5	60	65	22	M6	6	197	750	1200	470	M8	Centred		038 x 005 B
	10	65	75											038 x 010 B
	15	70	85											038 x 015 B
	19	74	93											038 x 019 B
	25	80	105											038 x 025 B
	32	87	119											038 x 032 B
	38	93	131											038 x 038 B
	50	105	155											038 x 050 B
	63	118	181											038 x 063 B
	80	140	220											038 x 080 B
	100	155	255											038 x 100 B
	125	180	305											038 x 125 B
50	5	90	95	30	M8	10	212	1500	1751	500	G1/8	On the side		050 x 005 B
	10	95	105						1877					050 x 010 B
	15	100	115						1968					050 x 015 B
	19	104	123						2020					050 x 019 B
	25	110	135						2078					050 x 025 B
	32	117	149						2132					050 x 032 B
	38	123	161						2158					050 x 038 B
	50	135	185						2203					050 x 050 B
	63	148	211						2236					050 x 063 B
	80	165	245						2265					050 x 080 B
	100	195	295						2293					050 x 100 B
	125	220	345						2306					050 x 125 B
	160*	255	415						2400					050 x 160 B
	200*	295	495						2400					050 x 200 B
63	5	90	95	38	M8	10	176	2000	3200	430	G1/8	On the side		063 x 005 B
	10	95	105											063 x 010 B
	15	100	115											063 x 015 B
	19	104	123											063 x 019 B
	25	110	135											063 x 025 B
	32	117	149											063 x 032 B
	38	123	161											063 x 038 B
	50	135	185											063 x 050 B
	63	148	211											063 x 063 B
	80	165	245											063 x 080 B
	100	185	285											063 x 100 B
	125	220	345											063 x 125 B
	160*	255	415											063 x 160 B
	200*	295	495											063 x 200 B
75	5	100	105	45	M8	10	189	3000	4800	450	G1/8	On the side		075 x 005 B
	10	105	115											075 x 010 B
	15	110	125											075 x 015 B
	19	114	133											075 x 019 B
	25	120	145											075 x 025 B
	32	127	159											075 x 032 B
	38	133	171											075 x 038 B
	50	145	195											075 x 050 B
	63	158	221											075 x 063 B
	80	175	255											075 x 080 B
	100	200	300											075 x 100 B
	125	225	350											075 x 125 B
	160*	265	425											075 x 160 B
	200*	310	510											075 x 200 B
95	5	110	115	55	M8	10	210	5000	8000	500	G1/8	On the side		095 x 005 B
	10	115	125											095 x 010 B
	15	120	135											095 x 015 B
	19	124	143											095 x 019 B
	25	130	155											095 x 025 B
	32	137	169											095 x 032 B
	38	142	180											095 x 038 B
	50	155	205											095 x 050 B
	63	168	231											095 x 063 B
	80	190	270											095 x 080 B
	100	210	310											095 x 100 B
	125	245	370											095 x 125 B
	160*	280	440											095 x 160 B
	200*	330	530											095 x 200 B

*Special and intermediate strokes upon request

Nitrogen cylinders SZ 7080.2.V

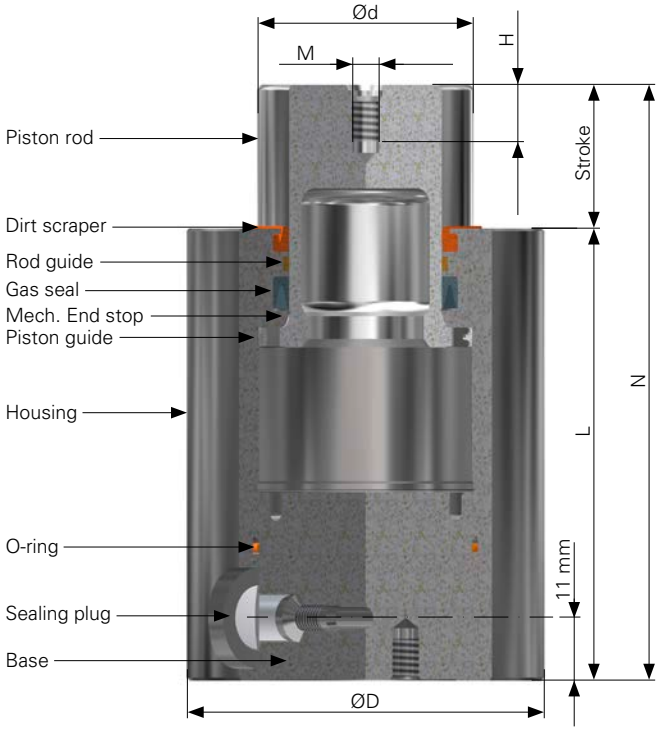
extra heavy load, connecting nitrogen cylinders

Explanation:
STEINEL nitrogen cylinders **SZ 7080.2.V** can be filled with standard nitrogen.
Nitrogen N_2 is a neutral, non-hazardous gas.

Special features:
- The nitrogen cylinders will be delivered unfilled without a valve
- Maximum force in the smallest of spaces
- Easy to assemble
- No spring breakage
- Recommended stroke reserve of 10 %
- No mechanical preload is necessary
- Easy to use

Multiple-cylinder system:
- The nitrogen cylinders are equipped to be connected on their sides with G1/8 male stud couplings.
- The connection for two screw-on threads is at 90° and at 45° for four screw-on threads.
- The nitrogen cylinders are filled through a connected control panel.

Order example: Nitrogen cylinder **SZ 7080.2**
with a D = 50 mm and a stroke of 100 mm.
Addition **050 x 100 V**
Order number **SZ 7080.2.050 x 100 V**

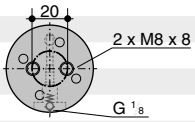
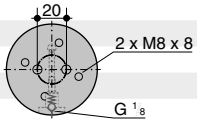
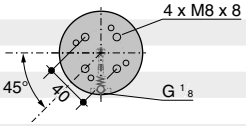
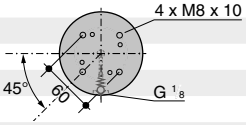


Nitrogen cylinders SZ 7080.2.V

extra heavy load, connecting nitrogen cylinders

Add size to order number

Nitrogen cylinder — Order number **SZ 7080.2.** ☐ x ☐ **V**

D	Stroke	L	N±0.2	d	M	H					Pos.		
										Connecting	Connecting		
mm	mm	mm	mm	mm	mm	mm	bar	daN	daN	thread	thread	Cylinder mounting	
50	5	90	95	30	M8	10	212	1500	2400	G1/8	On the side		050 x 005 V
	10	95	105										050 x 010 V
	15	100	115										050 x 015 V
	19	104	123										050 x 019 V
	25	110	135										050 x 025 V
	32	117	149										050 x 032 V
	38	123	161										050 x 038 V
	50	135	185										050 x 050 V
	63	148	211										050 x 063 V
	80	165	245										050 x 080 V
	100	195	295										050 x 100 V
	125	220	345										050 x 125 V
	160*	255	415										050 x 160 V
	200*	295	495										050 x 200 V
63	5	90	95	38	M8	10	176	2000	3200	G1/8	On the side		063 x 005 V
	10	95	105										063 x 010 V
	15	100	115										063 x 015 V
	19	104	123										063 x 019 V
	25	110	135										063 x 025 V
	32	117	149										063 x 032 V
	38	123	161										063 x 038 V
	50	135	185										063 x 050 V
	63	148	211										063 x 063 V
	80	165	245										063 x 080 V
	100	185	285										063 x 100 V
	125	220	345										063 x 125 V
	160*	255	415										063 x 160 V
	200*	295	495										063 x 200 V
75	5	100	105	45	M8	10	189	3000	4800	G1/8	On the side		075 x 005 V
	10	105	115										075 x 010 V
	15	110	125										075 x 015 V
	19	114	133										075 x 019 V
	25	120	145										075 x 025 V
	32	127	159										075 x 032 V
	38	133	171										075 x 038 V
	50	145	195										075 x 050 V
	63	158	221										075 x 063 V
	80	175	255										075 x 080 V
	100	200	300										075 x 100 V
	125	225	350										075 x 125 V
	160*	265	425										075 x 160 V
	200*	310	510										075 x 200 V
95	5	110	115	55	M8	10	210	5000	8000	G1/8	On the side		095 x 005 V
	10	115	125										095 x 010 V
	15	120	135										095 x 015 V
	19	124	143										095 x 019 V
	25	130	155										095 x 025 V
	32	137	169										095 x 032 V
	38	142	180										095 x 038 V
	50	155	205										095 x 050 V
	63	168	231										095 x 063 V
	80	190	270										095 x 080 V
	100	210	310										095 x 100 V
	125	245	370										095 x 125 V
	160*	280	440										095 x 160 V
	200*	330	530										095 x 200 V

* Special and intermediate strokes upon request

The nitrogen cylinders will be delivered unfilled.

Nitrogen cylinders SZ 7080.2.VB

extra heavy load, connecting nitrogen cylinders, with integrated burst protection

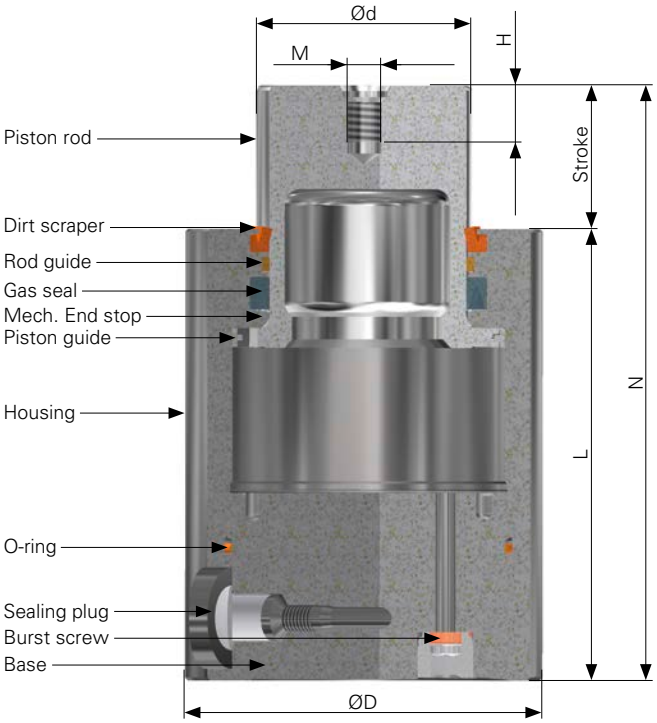
Explanation:
STEINEL nitrogen cylinders **SZ 7080.2.VB** can be filled with standard nitrogen. Nitrogen N_2 is a neutral, non-hazardous gas.

Special features:
- The nitrogen cylinders will be delivered unfilled without a valve
- With integrated burst protection
- Maximum force in the smallest of spaces
- Easy to assemble
- No spring breakage
- Recommended stroke reserve of 10 %
- No mechanical preload is necessary
- Easy to use

Multiple-cylinder system:
- The nitrogen cylinders are equipped to be connected on their sides with G1/8 male stud couplings.
- The connection for two screw-on threads is at 90° and at 45° for four screw-on threads.
- The nitrogen cylinders are filled through a connected control panel.

Advantages:
- By using a burst screw, the nitrogen cylinder is protected from overpressure damage
- Prevents consequential damage to nitrogen cylinder and tool
- After replacement of the burst screw, a nitrogen cylinder can be filled and used again
- Integrated part

Order example: Nitrogen cylinder **SZ 7080.2**
with a D = 50 mm and a stroke of 100 mm.
Addition **050 x 100 VB**
Order number **SZ 7080.2.050 x 100 VB**

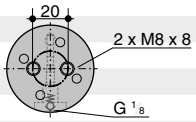
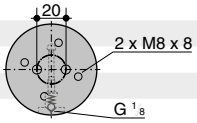
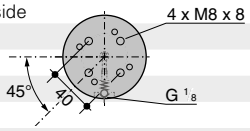
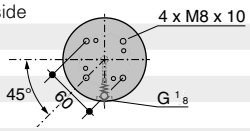


Nitrogen cylinders SZ 7080.2.VB

extra heavy load, connecting nitrogen cylinders, with integrated burst protection

Add size to order number

Nitrogen cylinder Order number **SZ 7080.2. ☐ x ☐ VB**

D	Stroke	L	N±0.2	d	M	H				Burst pres-	Connecting	Pos. Connecting	Cylinder mounting	
mm	mm	mm	mm	mm	mm	mm	bar	daN	daN	sure	thread	thread		
50	5	90	95	30	M8	10	212	1500	1751	500	G1/8	On the side		**050 x 005 VB**
	10	95	105						1877					**050 x 010 VB**
	15	100	115						1968					**050 x 015 VB**
	19	104	123						1968					**050 x 019 VB**
	25	110	135						2078					**050 x 025 VB**
	32	117	149						2132					**050 x 032 VB**
	38	123	161						2158					**050 x 038 VB**
	50	135	185						2203					**050 x 050 VB**
	63	148	211						2236					**050 x 063 VB**
	80	165	245						2265					**050 x 080 VB**
	100	195	295						2293					**050 x 100 VB**
	125	220	345						2306					**050 x 125 VB**
	160*	255	415						2400					**050 x 160 VB**
	200*	295	495						2400					**050 x 200 VB**
63	5	90	95	38	M8	10	176	2000	3200	430	G1/8	On the side		**063 x 005 VB**
	10	95	105											**063 x 010 VB**
	15	100	115											**063 x 015 VB**
	19	104	123											**063 x 019 VB**
	25	110	135											**063 x 025 VB**
	32	117	149											**063 x 032 VB**
	38	123	161											**063 x 038 VB**
	50	135	185											**063 x 050 VB**
	63	148	211											**063 x 063 VB**
	80	165	245											**063 x 080 VB**
	100	185	285											**063 x 100 VB**
	125	220	345											**063 x 125 VB**
	160*	255	415											**063 x 160 VB**
	200*	295	495											**063 x 200 VB**
75	5	100	105	45	M8	10	189	3000	4800	450	G1/8	On the side		**075 x 005 VB**
	10	105	115											**075 x 010 VB**
	15	110	125											**075 x 015 VB**
	19	114	133											**075 x 019 VB**
	25	120	145											**075 x 025 VB**
	32	127	159											**075 x 032 VB**
	38	133	171											**075 x 038 VB**
	50	145	195											**075 x 050 VB**
	63	158	221											**075 x 063 VB**
	80	175	255											**075 x 080 VB**
	100	200	300											**075 x 100 VB**
	125	225	350											**075 x 125 VB**
	160*	265	425											**075 x 160 VB**
	200*	310	510											**075 x 200 VB**
95	5	110	115	55	M8	10	210	5000	8000	500	G1/8	On the side		**095 x 005 VB**
	10	115	125											**095 x 010 VB**
	15	120	135											**095 x 015 VB**
	19	124	143											**095 x 019 VB**
	25	130	155											**095 x 025 VB**
	32	137	169											**095 x 032 VB**
	38	142	180											**095 x 038 VB**
	50	155	205											**095 x 050 VB**
	63	168	231											**095 x 063 VB**
	80	190	270											**095 x 080 VB**
	100	210	310											**095 x 100 VB**
	125	245	370											**095 x 125 VB**
	160*	280	440											**095 x 160 VB**
	200*	330	530											**095 x 200 VB**

* Special and intermediate strokes upon request

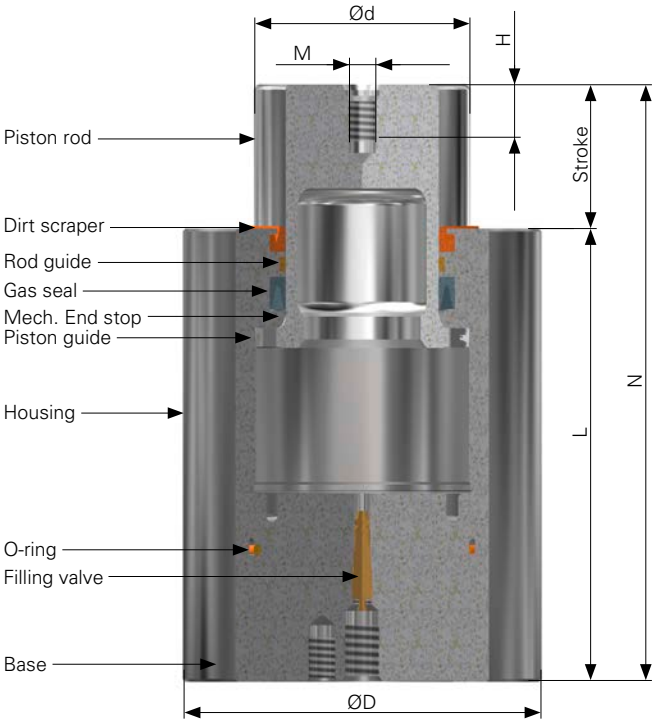
The nitrogen cylinders will be delivered unfilled.

Nitrogen cylinders SZ 8066.2

Explanation:
STEINEL nitrogen cylinders **SZ 8066.2** are filled with standard nitrogen.
Nitrogen N_2 is a neutral, non-hazardous gas.

Special features:
- Each nitrogen cylinder forms a functional, closed unit **(autonomous nitrogen cylinder)**
- Maximum force in the smallest of spaces
- Easy to assemble
- No spring breakage
- Recommended stroke reserve of 10 %
- No mechanical preload is necessary
- Easy to use

Order example: Nitrogen cylinder **SZ 8066.2**
with a D = 50 and a stroke of 25 mm
Addition **050 x 025**
Order number **SZ 8066.2.050 x 025**

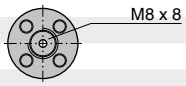
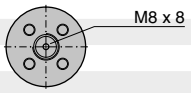
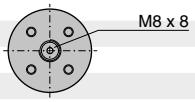
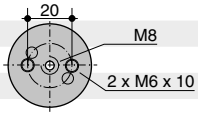
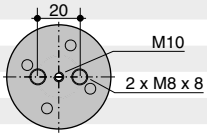


Nitrogen cylinders SZ 8066.2

STEINEL®

Add size to order number

Nitrogen cylinder — Order number **SZ 8066.2.** ☐ x ☐

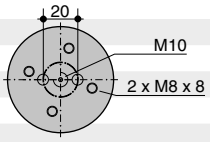
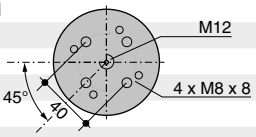
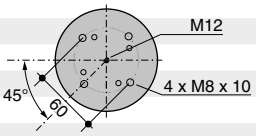
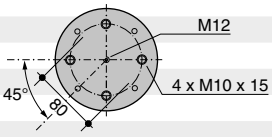
D	Stroke	L	N±0.2	d	M	H					Pos. Filling thread	Cylinder mounting	
mm	mm	mm	mm	mm	mm	mm	bar	daN	daN	Filling thread			
19	5	45	50	11	–	–	105	100	160	M8	Centred		**019 x 005**
	10	50	60										**019 x 010**
	15	55	70										**019 x 015**
	19	59	78										**019 x 019**
	25	65	90										**019 x 025**
	32	72	104										**019 x 032**
	38	78	116										**019 x 038**
	50	90	140										**019 x 050**
	63	103	166										**019 x 063**
	80	120	200										**019 x 080**
	100	140	240										**019 x 100**
	125	165	290										**019 x 125**
25	5	45	50	14	–	–	129	200	320	M8	Centred		**025 x 005**
	10	50	60		–	–							**025 x 010**
	15	55	70		–	–							**025 x 015**
	19	59	78		–	–							**025 x 019**
	25	65	90		M6	6							**025 x 025**
	32	72	104		M6	6							**025 x 032**
	38	78	116		M6	6							**025 x 038**
	50	90	140		M6	6							**025 x 050**
	63	103	166		M6	6							**025 x 063**
	80	120	200		M6	6							**025 x 080**
	100	140	240		M6	6							**025 x 100**
	125	165	290		M6	6							**025 x 125**
32	5	50	55	18	–	–	137	350	560	M8	Centred		**032 x 005**
	10	55	65		M6	6							**032 x 010**
	15	60	75		M6	6							**032 x 015**
	19	64	83		M6	6							**032 x 019**
	25	70	95		M6	6							**032 x 025**
	32	77	109		M6	6							**032 x 032**
	38	83	121		M6	6							**032 x 038**
	50	95	145		M6	6							**032 x 050**
	63	108	171		M6	6							**032 x 063**
	80	125	205		M6	6							**032 x 080**
	100	145	245		M6	6							**032 x 100**
	125	170	295		M6	6							**032 x 125**
38	5	50	55	22	–	–	131	500	800	M8	Centred		**038 x 005**
	10	55	65		M6	6							**038 x 010**
	15	60	75		M6	6							**038 x 015**
	19	64	83		M6	6							**038 x 019**
	25	70	95		M6	6							**038 x 025**
	32	77	109		M6	6							**038 x 032**
	38	83	121		M6	6							**038 x 038**
	50	95	145		M6	6							**038 x 050**
	63	108	171		M6	6							**038 x 063**
	80	125	205		M6	6							**038 x 080**
	100	145	245		M6	6							**038 x 100**
	125	170	295		M6	6							**038 x 125**
	170*	215	385		M6	6							**038 x 170**
50	5	55	60	30	–	–	141	1000	1600	M10	Centred		**050 x 005**
	10	60	70		M8	10							**050 x 010**
	15	65	80		M8	10							**050 x 015**
	19	69	88		M8	10							**050 x 019**
	25	75	100		M8	10							**050 x 025**
	32	82	114		M8	10							**050 x 032**
	38	88	126		M8	10							**050 x 038**
	50	100	150		M8	10							**050 x 050**
	63	113	176		M8	10							**050 x 063**
	80	130	210		M8	10							**050 x 080**
	100	150	250		M8	10							**050 x 100**
	125	190	315		M8	10							**050 x 125**
	160*	235	395		M8	10							**050 x 160**
	180*	255	435		M8	10							**050 x 180**
	200*	275	475		M8	10							**050 x 200**
	240*	315	555		M8	10							**050 x 240**

*Special and intermediate strokes upon request

Nitrogen cylinders SZ 8066.2

Add size to order number

Nitrogen cylinder Order number **SZ 8066.2.** ☐ x ☐

D	Stroke	L	N±0.2	d	M	H				Filling thread	Pos. Filling thread	Cylinder mounting	
mm	mm	mm	mm	mm	mm	mm	bar	daN	daN				
63	5	60	65	38	–	–	132	1500	2400	M10	Centred		**063 x 005**
	10	65	75		M8	10							**063 x 010**
	15	70	85		M8	10							**063 x 015**
	19	74	93		M8	10							**063 x 019**
	25	80	105		M8	10							**063 x 025**
	32	87	119		M8	10							**063 x 032**
	38	93	131		M8	10							**063 x 038**
	50	105	155		M8	10							**063 x 050**
	63	118	181		M8	10							**063 x 063**
	80	135	215		M8	10							**063 x 080**
	100	160	260		M8	10							**063 x 100**
	125	190	315		M8	10							**063 x 125**
	160	235	395		M8	10							**063 x 160**
	200	275	475		M8	10							**063 x 200**
75	5	60	65	45	–	–	157	2500	4000	M12	Centred		**075 x 005**
	10	65	75		M8	10							**075 x 010**
	15	70	85		M8	10							**075 x 015**
	19	74	93		M8	10							**075 x 019**
	25	80	105		M8	10							**075 x 025**
	32	87	119		M8	10							**075 x 032**
	38	93	131		M8	10							**075 x 038**
	50	105	155		M8	10							**075 x 050**
	63	118	181		M8	10							**075 x 063**
	80	135	215		M8	10							**075 x 080**
	100	155	255		M8	10							**075 x 100**
	125	200	325		M8	10							**075 x 125**
	160*	250	410		M8	10							**075 x 160**
	200*	300	500		M8	10							**075 x 200**
95	5	70	75	55	–	–	168	4000	6400	M12	Centred		**095 x 005**
	10	75	85		M8	10							**095 x 010**
	15	80	95		M8	10							**095 x 015**
	19	84	103		M8	10							**095 x 019**
	25	90	115		M8	10							**095 x 025**
	32	97	129		M8	10							**095 x 032**
	38	103	141		M8	10							**095 x 038**
	50	115	165		M8	10							**095 x 050**
	63	128	191		M8	10							**095 x 063**
	80	155	235		M8	10							**095 x 080**
	100	185	285		M8	10							**095 x 100**
	125	220	345		M8	10							**095 x 125**
	160*	260	420		M8	10							**095 x 160**
	200*	310	510		M8	10							**095 x 200**
120	25	100	125	75	M8	12	147	6500	10400	M8	Centred		**120 x 025**
	38	113	151										**120 x 038**
	50	125	175										**120 x 050**
	63	138	201										**120 x 063**
	80	160	240										**120 x 080**
	100	190	290										**120 x 100**
	125	225	350										**120 x 125**
	160*	270	430										**120 x 160**
	200*	320	520										**120 x 200**

* Special and intermediate strokes upon request

Nitrogen cylinders SZ 8066.2.B

with integrated burst protection

Explanation:
STEINEL nitrogen cylinders **SZ 8066.2.B** are filled with standard nitrogen. Nitrogen N_2 is a neutral, non-hazardous gas.

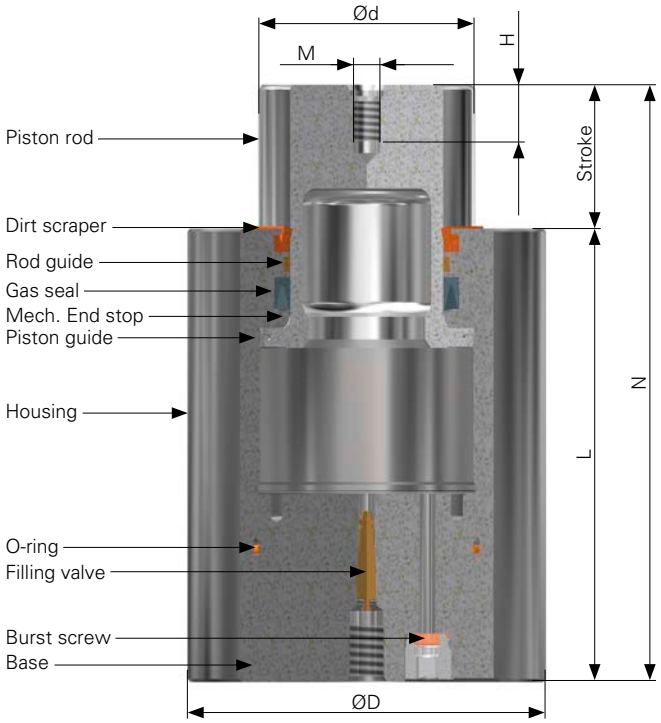
Special features:
- Integrated burst protection
- Each nitrogen cylinder forms a functional, closed unit **(autonomous nitrogen cylinder)**
- Maximum force in the smallest of spaces
- Easy to assemble
- No spring breakage
- Recommended stroke reserve of 10 %
- No mechanical preload is necessary
- Easy to use

Advantages:
- By using a burst screw, the nitrogen cylinder is protected from overpressure damage
- Prevents consequential damage to nitrogen cylinder and tool
- After replacement of the burst screw, a nitrogen cylinder can be filled and used again
- Integrated part

Information for users:
- If the burst pressure is surpassed, forced ventilation occurs and the working pressure is released
- Following breakage, burst screws are unusable
- Burst screws are labelled with the burst pressure, which is legible even following breakage
- An activated burst screw can be replaced by trained personnel

Order example: Nitrogen cylinder **SZ 8066.2**
with a D = 50 and a stroke of 25 mm
Addition **050 x 025 B**
Order number **SZ 8066.2.050 x 025 B**

You can find further information on burst protection on page 5.150

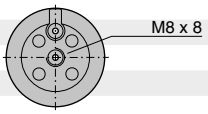
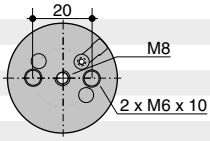
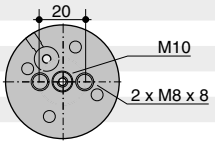
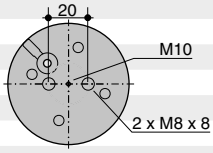
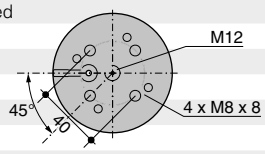


Nitrogen cylinders SZ 8066.2.B

with integrated burst protection

Add size to order number

Nitrogen cylinder — Order number **SZ 8066.2. ☐ x ☐ B**

D	Stroke	L	N±0.2	d	M	H				Burst pressure	Filling thread	Pos. Filling thread	Cylinder mounting	
mm	mm	mm	mm	mm	mm	mm	bar	daN	daN	bar				
32	5	50	55	18	M6	6	137	350	560	380	M8	Centred		**032 x 005 B**
	10	55	65											**032 x 010 B**
	15	60	75											**032 x 015 B**
	19	64	83											**032 x 019 B**
	25	70	95											**032 x 025 B**
	32	77	109											**032 x 032 B**
	38	83	121											**032 x 038 B**
	50	95	145											**032 x 050 B**
	63	108	171											**032 x 063 B**
	80	125	205											**032 x 080 B**
	100	145	245											**032 x 100 B**
	125	170	295											**032 x 125 B**
38	5	50	55	22	M6	6	131	500	800	380	M8	Centred		**038 x 005 B**
	10	55	65											**038 x 010 B**
	15	60	75											**038 x 015 B**
	19	64	83											**038 x 019 B**
	25	70	95											**038 x 025 B**
	32	77	109											**038 x 032 B**
	38	83	121											**038 x 038 B**
	50	95	145											**038 x 050 B**
	63	108	171											**038 x 063 B**
	80	125	205											**038 x 080 B**
	100	145	245											**038 x 100 B**
	125	180	305											**038 x 125 B**
	170*	215	385											**038 x 170 B**
50	5	55	60	30	M8	10	141	1000	1600	380	M10	Centred		**050 x 005 B**
	10	60	70											**050 x 010 B**
	15	65	80											**050 x 015 B**
	19	69	88											**050 x 019 B**
	25	75	100											**050 x 025 B**
	32	82	114											**050 x 032 B**
	38	88	126											**050 x 038 B**
	50	100	150											**050 x 050 B**
	63	113	176											**050 x 063 B**
	80	130	210											**050 x 080 B**
	100	150	250											**050 x 100 B**
	125	190	315											**050 x 125 B**
	160*	235	395											**050 x 160 B**
	180*	255	435											**050 x 180 B**
	200*	275	475											**050 x 200 B**
	240*	315	555											**050 x 240 B**
63	5	60	65	38	M8	10	132	1500	2400	380	M10	Centred		**063 x 005 B**
	10	65	75											**063 x 010 B**
	15	70	85											**063 x 015 B**
	19	74	93											**063 x 019 B**
	25	80	105											**063 x 025 B**
	32	87	119											**063 x 032 B**
	38	93	131											**063 x 038 B**
	50	105	155											**063 x 050 B**
	63	118	181											**063 x 063 B**
	80	135	215											**063 x 080 B**
	100	160	260											**063 x 100 B**
	125	190	315											**063 x 125 B**
	160*	235	395											**063 x 160 B**
	200*	275	475											**063 x 200 B**
75	5	60	65	45	M8	10	157	2500	4000	400	M12	Centred		**075 x 005 B**
	10	65	75											**075 x 010 B**
	15	70	85											**075 x 015 B**
	19	74	93											**075 x 019 B**
	25	80	105											**075 x 025 B**
	32	87	119											**075 x 032 B**
	38	93	131											**075 x 038 B**
	50	105	155											**075 x 050 B**
	63	118	181											**075 x 063 B**
	80	135	215											**075 x 080 B**
	100	155	255											**075 x 100 B**
	125	200	325											**075 x 125 B**
	160*	250	410											**075 x 160 B**
	200*	300	500											**075 x 200 B**

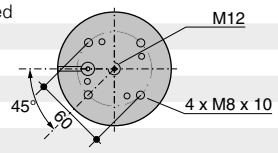
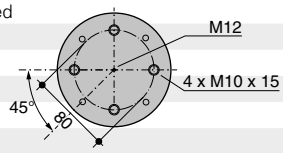
* Special and intermediate strokes upon request

Nitrogen cylinders SZ 8066.2.B

with integrated burst protection

Add size to order number

Nitrogen cylinder Order number **SZ 8066.2. ☐ x ☐ B**

D	Stroke	L	N±0.2	d	M	H				Burst pressure	Filling	Pos. Filling	Cylinder mounting	
mm	mm	mm	mm	mm	mm	mm	bar	daN	daN	bar	thread	thread		
95	5	70	75	55	M8	10	168	4000	6400	470	M12	Centred		**095 x 005 B**
	10	75	85											**095 x 010 B**
	15	80	95											**095 x 015 B**
	19	84	103											**095 x 019 B**
	25	90	115											**095 x 025 B**
	32	97	129											**095 x 032 B**
	38	103	141											**095 x 038 B**
	50	115	165											**095 x 050 B**
	63	128	191											**095 x 063 B**
	80	155	235											**095 x 080 B**
	100	185	285											**095 x 100 B**
	125	220	345											**095 x 125 B**
	160*	260	420											**095 x 160 B**
	200*	310	510											**095 x 200 B**
120	25	100	125	75	M8	12	147	6500	10400	350	M8	Centred		**120 x 025 B**
	38	113	151											**120 x 038 B**
	50	125	175											**120 x 050 B**
	63	138	201											**120 x 063 B**
	80	160	240											**120 x 080 B**
	100	190	290											**120 x 100 B**
	125	225	350											**120 x 125 B**
	160*	270	430											**120 x 160 B**
	200*	320	520											**120 x 200 B**

* Special and intermediate strokes upon request

Nitrogen cylinders SZ 8066.2.V

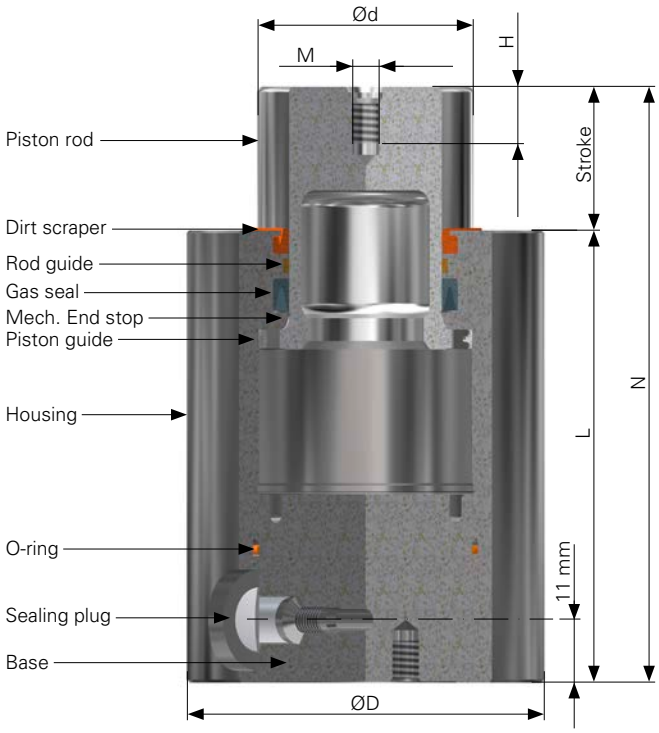
connecting nitrogen cylinders

Explanation:
STEINEL nitrogen cylinders **SZ 8066.2.V** can be filled with standard nitrogen.
Nitrogen N_2 is a neutral, non-hazardous gas.

Special features:
- The nitrogen cylinders will be delivered unfilled without a valve
- Maximum force in the smallest of spaces
- Easy to assemble
- No spring breakage
- Recommended stroke reserve of 10 %
- No mechanical preload is necessary
- Easy to use

Multiple-cylinder system:
- The nitrogen cylinders are equipped to be connected on their sides with G1/8 male stud couplings.
- The connection for two screw-on threads is at 90° and at 45° for four screw-on threads.
- The nitrogen cylinders are filled through a connected control panel.

Order example: Nitrogen cylinder **SZ 8066.2**
with a D = 50 and a stroke of 25 mm
Addition **050 x 025 V**
Order number **SZ 8066.2.050 x 025 V**



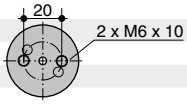
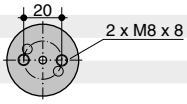
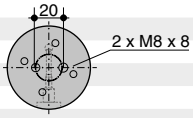
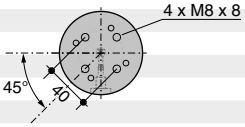
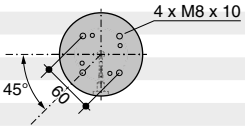
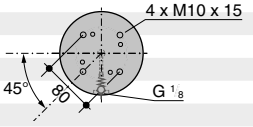
Nitrogen cylinders SZ 8066.2.V

connecting nitrogen cylinders

STEINEL®

Add size to order number

Nitrogen cylinder — Order number **SZ 8066.2. ☐ x ☐ V**

D	Stroke	L	N±0.2	d	M	H				Connecting thread	Pos. Filling thread	Cylinder mounting	
mm	mm	mm	mm	mm	mm	mm	bar	daN	daN				
38	5	70	75	22	M6	6	131	500	800	G1/8	On the side		038 x 005 V
	10	75	85										038 x 010 V
	15	80	95										038 x 015 V
	19	84	103										038 x 019 V
	25	90	115										038 x 025 V
	32	97	129										038 x 032 V
	38	103	141										038 x 038 V
	50	115	165										038 x 050 V
	63	128	191										038 x 063 V
	80	145	225										038 x 080 V
	100	165	265										038 x 100 V
	125	190	315										038 x 125 V
50	5	75	80	30	M8	10	141	1000	1600	G1/8	On the side		050 x 005 V
	10	80	90										050 x 010 V
	15	85	100										050 x 015 V
	19	89	108										050 x 019 V
	25	95	120										050 x 025 V
	32	102	134										050 x 032 V
	38	108	146										050 x 038 V
	50	120	170										050 x 050 V
	63	133	196										050 x 063 V
	80	150	230										050 x 080 V
	100	170	270										050 x 100 V
	125	210	335										050 x 125 V
	160*	255	415										050 x 160 V
	200*	295	495										050 x 200 V
63	5	80	85	38	M8	10	132	1500	2400	G1/8	On the side		063 x 005 V
	10	85	95										063 x 010 V
	15	90	105										063 x 015 V
	19	94	113										063 x 019 V
	25	100	125										063 x 025 V
	32	107	139										063 x 032 V
	38	113	151										063 x 038 V
	50	125	175										063 x 050 V
	63	138	201										063 x 063 V
	80	155	235										063 x 080 V
	100	180	280										063 x 100 V
	125	210	335										063 x 125 V
	160*	255	415										063 x 160 V
	200*	295	495										063 x 200 V
75	5	80	85	45	M8	10	157	2500	4000	G1/8	On the side		075 x 005 V
	10	85	95										075 x 010 V
	15	90	105										075 x 015 V
	19	94	113										075 x 019 V
	25	100	125										075 x 025 V
	32	107	139										075 x 032 V
	38	113	151										075 x 038 V
	50	125	175										075 x 050 V
	63	138	201										075 x 063 V
	80	155	235										075 x 080 V
	100	175	275										075 x 100 V
	125	220	345										075 x 125 V
	160*	270	430										075 x 160 V
	200*	320	520										075 x 200 V
95	5	90	95	55	M8	10	168	4000	6400	G1/8	On the side		095 x 005 V
	10	95	105										095 x 010 V
	15	100	115										095 x 015 V
	19	104	123										095 x 019 V
	25	110	135										095 x 025 V
	32	117	149										095 x 032 V
	38	123	161										095 x 038 V
	50	135	185										095 x 050 V
	63	148	211										095 x 063 V
	80	175	255										095 x 080 V
	100	205	305										095 x 100 V
	125	240	365										095 x 125 V
	160*	280	440										095 x 160 V
	200*	330	530										095 x 200 V
120	25	120	145	75	M8	12	147	6500	10400	G1/8	On the side		120 x 025 V
	38	133	171										120 x 038 V
	50	145	195										120 x 050 V
	63	158	221										120 x 063 V
	80	180	260										120 x 080 V
	100	210	310										120 x 100 V
	125	245	370										120 x 125 V
	160*	290	450										120 x 160 V
	200*	340	540										120 x 200 V

* Special and intermediate strokes upon request

The nitrogen cylinders will be delivered unfilled.

Nitrogen cylinders SZ 8066.2.VB

connecting nitrogen cylinders, with integrated burst protection

Explanation:
STEINEL nitrogen cylinders **SZ 8066.2.VB** can be filled with standard nitrogen.
Nitrogen N_2 is a neutral, non-hazardous gas.

Special features:
- The nitrogen cylinders will be delivered unfilled without a valve
- With integrated burst protection
- Maximum force in the smallest of spaces
- Easy to assemble
- No spring breakage
- Recommended stroke reserve of 10 %
- No mechanical preload is necessary
- Easy to use

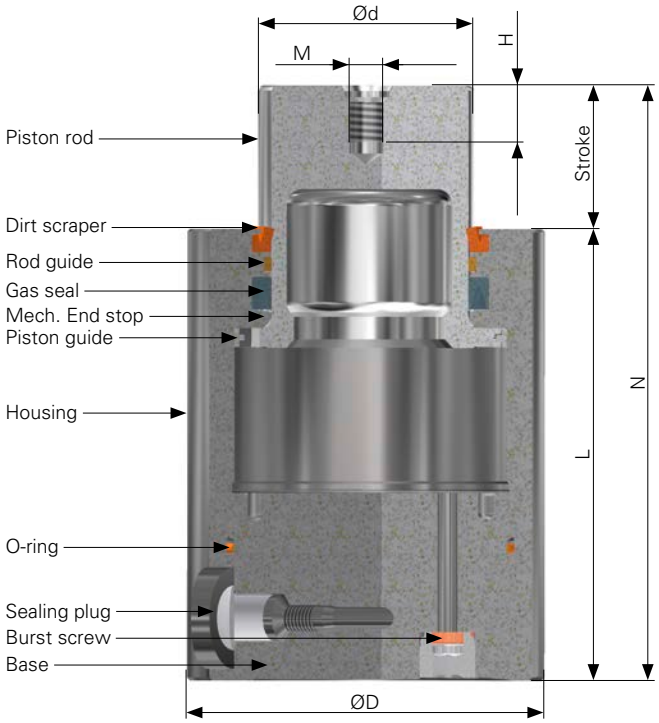
Multiple-cylinder system:
- The nitrogen cylinders are equipped to be connected on their sides with G1/8 male stud couplings.
- The connection for two screw-on threads is at 90° and at 45° for four screw-on threads.
- The nitrogen cylinders are filled through a connected control panel.

Advantages:
- By using a burst screw, the nitrogen cylinder is protected from overpressure damage
- Prevents consequential damage to nitrogen cylinder and tool
- After replacement of the burst screw, a nitrogen cylinder can be filled and used again
- Integrated part

Information for users:
- If the burst pressure is surpassed, forced ventilation occurs and the working pressure is released.
- Following breakage, burst screws are unusable.
- Burst screws are labelled with the burst pressure, which is legible even following breakage.
- An activated burst screw can be replaced by trained personnel.

Order example: Nitrogen cylinder **SZ 8066.2**
with a D = 50 and a stroke of 25 mm
Addition **050 x 025 VB**
Order number **SZ 8066.2.050 x 025 VB**

You can find further information on burst protection on page 5.150



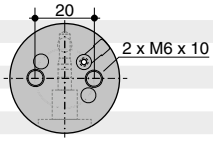
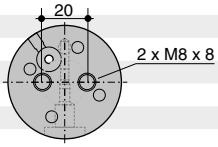
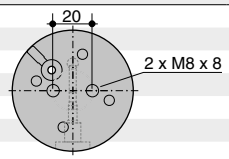
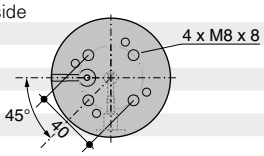
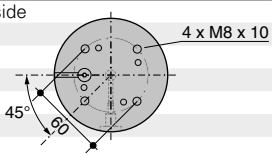
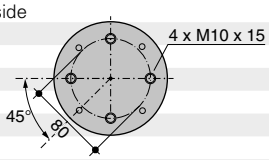
Nitrogen cylinders SZ 8066.2.VB

connecting nitrogen cylinders, with integrated burst protection

STEINEL®

Add size to order number

Nitrogen cylinder — Order number **SZ 8066.2. ☐ x ☐ VB**

D	Stroke	L	N±0.2	d	M	H				Burst pressure	Filling thread	Pos. Filling thread	Cylinder mounting	
mm	mm	mm	mm	mm	mm	mm	bar	daN	daN	bar				
38	5	70	75	22	M6	6	131	500	800	380	G1/8	On the side		**038 x 005 VB**
	10	75	85											**038 x 010 VB**
	15	80	95											**038 x 015 VB**
	19	84	103											**038 x 019 VB**
	25	90	115											**038 x 025 VB**
	32	97	129											**038 x 032 VB**
	38	103	141											**038 x 038 VB**
	50	115	165											**038 x 050 VB**
	63	128	191											**038 x 063 VB**
	80	145	225											**038 x 080 VB**
	100	165	265											**038 x 100 VB**
	125	190	315											**038 x 125 VB**
50	5	75	80	30	M8	10	141	1000	1600	380	G1/8	On the side		**050 x 005 VB**
	10	80	90											**050 x 010 VB**
	15	85	100											**050 x 015 VB**
	19	89	108											**050 x 019 VB**
	25	95	120											**050 x 025 VB**
	32	102	134											**050 x 032 VB**
	38	108	146											**050 x 038 VB**
	50	120	170											**050 x 050 VB**
	63	133	196											**050 x 063 VB**
	80	150	230											**050 x 080 VB**
	100	170	270											**050 x 100 VB**
	125	210	335											**050 x 125 VB**
	160*	255	415											**050 x 160 VB**
	200*	295	495											**050 x 200 VB**
63	5	80	85	38	M8	10	132	1500	2400	380	G1/8	On the side		**050 x 005 VB**
	10	85	95											**063 x 010 VB**
	15	90	105											**050 x 015 VB**
	19	94	113											**050 x 019 VB**
	25	100	125											**063 x 025 VB**
	32	107	139											**050 x 032 VB**
	38	113	151											**063 x 038 VB**
	50	125	175											**063 x 050 VB**
	63	138	201											**063 x 063 VB**
	80	155	235											**063 x 080 VB**
	100	180	280											**063 x 100 VB**
	125	210	335											**063 x 125 VB**
	160*	255	415											**050 x 160 VB**
	200*	295	495											**050 x 200 VB**
75	5	80	85	45	M8	10	157	2500	4000	400	G1/8	On the side		**075 x 005 VB**
	10	85	95											**075 x 010 VB**
	15	90	105											**075 x 015 VB**
	19	94	113											**075 x 019 VB**
	25	100	125											**075 x 025 VB**
	32	107	139											**075 x 032 VB**
	38	113	151											**075 x 038 VB**
	50	125	175											**075 x 050 VB**
	63	138	201											**075 x 063 VB**
	80	155	235											**075 x 080 VB**
	100	175	275											**075 x 100 VB**
	125	220	345											**075 x 125 VB**
	160*	270	430											**075 x 160 VB**
	200*	320	520											**075 x 200 VB**
95	5	90	95	55	M8	10	168	4000	6400	470	G1/8	On the side		**095 x 005 VB**
	10	95	105											**095 x 010 VB**
	15	100	115											**095 x 015 VB**
	19	104	123											**095 x 019 VB**
	25	110	135											**095 x 025 VB**
	32	117	149											**095 x 032 VB**
	38	123	161											**095 x 038 VB**
	50	135	185											**095 x 050 VB**
	63	148	211											**095 x 063 VB**
	80	175	255											**095 x 080 VB**
	100	205	305											**095 x 100 VB**
	125	240	365											**095 x 125 VB**
	160*	280	440											**095 x 160 VB**
	200*	330	530											**095 x 200 VB**
120	25	120	145	75	M8	12	147	6500	10400	350	G1/8	On the side		**120 x 025 VB**
	38	133	171											**120 x 038 VB**
	50	145	195											**120 x 050 VB**
	63	158	221											**120 x 063 VB**
	80	180	260											**120 x 080 VB**
	100	210	310											**120 x 100 VB**
	125	245	370											**120 x 125 VB**
	160*	290	450											**120 x 160 VB**
	200*	340	540											**120 x 200 VB**

* Special and intermediate strokes upon request

The nitrogen cylinders will be delivered unfilled.

Nitrogen cylinders SZ 7066.2

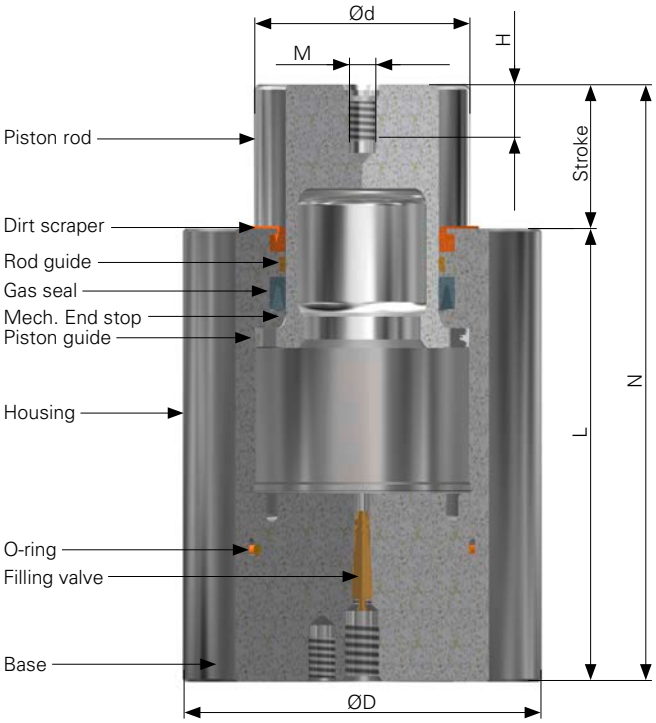
extra heavy load

Explanation:
STEINEL nitrogen cylinders **SZ 7066.2** are filled with standard nitrogen.
Nitrogen N_2 is a neutral, non-hazardous gas.

Special features:

- Each nitrogen cylinder forms a functional, closed unit **(autonomous nitrogen cylinder)**
- Maximum force in the smallest of spaces
- Easy to assemble
- No spring breakage
- Recommended stroke reserve of 10 %
- No mechanical preload is necessary
- Easy to use

Order example: Nitrogen cylinder **SZ 7066.2**
with a D = 50 and a stroke of 25 mm
Addition **050 x 025**
Order number **SZ 7066.2.050 x 025**



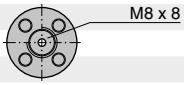
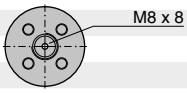
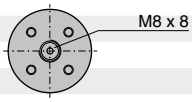
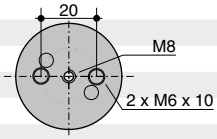
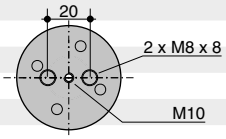
Nitrogen cylinders SZ 7066.2

extra heavy load

STEINEL®

Add size to order number

Nitrogen cylinder Order number **SZ 7066.2.** ☐ x ☐

D	Stroke	L	N±0.2	d	M	H					Pos. Filling thread	Cylinder mounting	
							bar	daN	daN	Filling thread			
mm	mm	mm	mm	mm	mm	mm							
19	5	45	50	11	–	–	180	170	272	M8	Centred		**019 x 005**
	10	50	60										**019 x 010**
	15	55	70										**019 x 015**
	19	59	78										**019 x 019**
	25	65	90										**019 x 025**
	32	72	104										**019 x 032**
	38	78	116										**019 x 038**
	50	90	140										**019 x 050**
	63	103	166										**019 x 063**
	80	120	200										**019 x 080**
	100	140	240										**019 x 100**
	125	165	290										**019 x 125**
25	5	45	50	14	–	–	195	300	480	M8	Centred		**025 x 005**
	10	50	60		–	–							**025 x 010**
	15	55	70		–	–							**025 x 015**
	19	59	78		–	–							**025 x 019**
	25	65	90		M6	6							**025 x 025**
	32	72	104		M6	6							**025 x 032**
	38	78	116		M6	6							**025 x 038**
	50	90	140		M6	6							**025 x 050**
	63	103	166		M6	6							**025 x 063**
	80	120	200		M6	6							**025 x 080**
	100	140	240		M6	6							**025 x 100**
	125	165	290		M6	6							**025 x 125**
32	5	50	55	18	–	–	196	500	800	M8	Centred		**032 x 005**
	10	55	65		M6	6							**032 x 010**
	15	60	75		M6	6							**032 x 015**
	19	64	83		M6	6							**032 x 019**
	25	70	95		M6	6							**032 x 025**
	32	77	109		M6	6							**032 x 032**
	38	83	121		M6	6							**032 x 038**
	50	95	145		M6	6							**032 x 050**
	63	108	171		M6	6							**032 x 063**
	80	125	205		M6	6							**032 x 080**
	100	145	245		M6	6							**032 x 100**
	125	170	295		M6	6							**032 x 125**
38	5	50	55	22	–	–	197	750	1200	M8	Centred		**038 x 005**
	10	55	65		M6	6							**038 x 010**
	15	60	75		M6	6							**038 x 015**
	19	64	83		M6	6							**038 x 019**
	25	70	95		M6	6							**038 x 025**
	32	77	109		M6	6							**038 x 032**
	38	83	121		M6	6							**038 x 038**
	50	95	145		M6	6							**038 x 050**
	63	108	171		M6	6							**038 x 063**
	80	125	205		M6	6							**038 x 080**
	100	145	245		M6	6							**038 x 100**
	125	170	295		M6	6							**038 x 125**
	170*	215	385		M6	6							**038 x 170**
50	5	55	60	30	–	–	212	1500	2400	M10	Centred		**050 x 005**
	10	60	70		M8	10							**050 x 010**
	15	65	80		M8	10							**050 x 015**
	19	69	88		M8	10							**050 x 019**
	25	75	100		M8	10							**050 x 025**
	32	82	114		M8	10							**050 x 032**
	38	88	126		M8	10							**050 x 038**
	50	100	150		M8	10							**050 x 050**
	63	113	176		M8	10							**050 x 063**
	80	130	210		M8	10							**050 x 080**
	100	150	250		M8	10							**050 x 100**
	125	190	315		M8	10							**050 x 125**
	160*	235	395		M8	10							**050 x 160**
	180*	255	435		M8	10							**050 x 180**
	200*	275	475		M8	10							**050 x 200**
	240*	315	555		M8	10							**050 x 240**

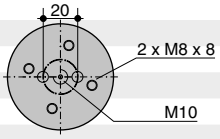
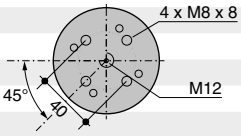
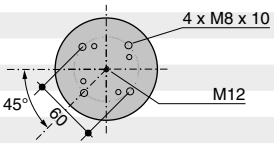
* Special and intermediate strokes upon request

Nitrogen cylinders SZ 7066.2

extra heavy load

Add size to order number

Nitrogen cylinder Order number **SZ 7066.2.** ☐ x ☐

D	Stroke	L	N±0.2	d	M	H				Filling	Pos. Filling	Cylinder mounting	
mm	mm	mm	mm	mm	mm	mm	bar	daN	daN	thread	thread		
63	5	60	65	38	–	–	176	2000	3200	M10	Centred		**063 x 005**
	10	65	75		M8	10							**063 x 010**
	15	70	85		M8	10							**063 x 015**
	19	74	93		M8	10							**063 x 019**
	25	80	105		M8	10							**063 x 025**
	32	87	119		M8	10							**063 x 032**
	38	93	131		M8	10							**063 x 038**
	50	105	155		M8	10							**063 x 050**
	63	118	181		M8	10							**063 x 063**
	80	135	215		M8	10							**063 x 080**
	100	160	260		M8	10							**063 x 100**
	125	190	315		M8	10							**063 x 125**
	160	235	395		M8	10							**063 x 160**
	200	275	475		M8	10							**063 x 200**
75	5	60	65	45	–	–	189	3000	4800	M12	Centred		**075 x 005**
	10	65	75		M8	10							**075 x 010**
	15	70	85		M8	10							**075 x 015**
	19	74	93		M8	10							**075 x 019**
	25	80	105		M8	10							**075 x 025**
	32	87	119		M8	10							**075 x 032**
	38	93	131		M8	10							**075 x 038**
	50	105	155		M8	10							**075 x 050**
	63	118	181		M8	10							**075 x 063**
	80	135	215		M8	10							**075 x 080**
	100	155	255		M8	10							**075 x 100**
	125	200	325		M8	10							**075 x 125**
	160*	250	410		M8	10							**075 x 160**
	200*	300	500		M8	10							**075 x 200**
95	5	70	75	55	–	–	210	5000	8000	M12	Centred		**095 x 005**
	10	75	85		M8	10							**095 x 010**
	15	80	95		M8	10							**095 x 015**
	19	84	103		M8	10							**095 x 019**
	25	90	115		M8	10							**095 x 025**
	32	97	129		M8	10							**095 x 032**
	38	103	141		M8	10							**075 x 038**
	50	115	165		M8	10							**075 x 050**
	63	128	191		M8	10							**075 x 063**
	80	155	235		M8	10							**075 x 080**
	100	185	285		M8	10							**075 x 100**
	125	220	345		M8	10							**075 x 125**
	160*	260	420		M8	10							**075 x 160**
	200*	310	510		M8	10							**095 x 200**

* Special and intermediate strokes upon request

Nitrogen cylinders SZ 7066.2.B

extra heavy load, with integrated burst protection

Explanation:
STEINEL nitrogen cylinders **SZ 7066.2.B** are filled with standard nitrogen.
Nitrogen N_2 is a neutral, non-hazardous gas.

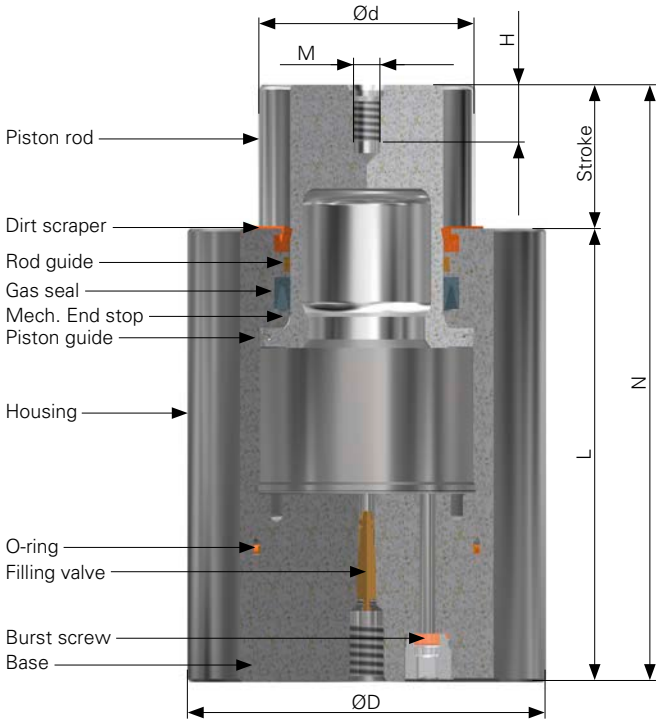
Special features:
- Integrated burst protection
- Each nitrogen cylinder forms a functional, closed unit **(autonomous nitrogen cylinder)**
- Maximum force in the smallest of spaces
- Easy to assemble
- No spring breakage
- Recommended stroke reserve of 10 %
- No mechanical preload is necessary
- Easy to use

Advantages:
- By using a burst screw, the nitrogen cylinder is protected from overpressure damage
- Prevents consequential damage to nitrogen cylinder and tool
- After replacement of the burst screw, a nitrogen cylinder can be filled and used again
- Integrated part

Information for users:
- If the burst pressure is surpassed, forced ventilation occurs and the working pressure is released.
- Following breakage, burst screws are unusable.
- Burst screws are labelled with the burst pressure, which is legible even following breakage.
- An activated burst screw can be replaced by trained personnel.

Order example: Nitrogen cylinder **SZ 7066.2**
with a D = 50 and a stroke of 25 mm
Addition **050 x 025 B**
Order number **SZ 7066.2.050 x 025 B**

You can find further information on burst protection on page 5.150



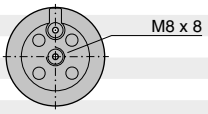
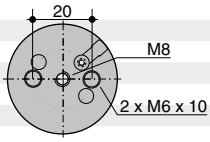
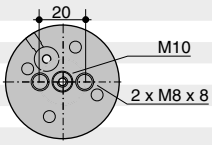
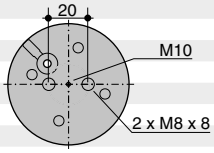
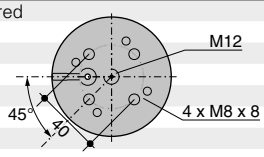
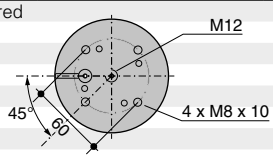
Nitrogen cylinders SZ 7066.2.B

extra heavy load, with integrated burst protection

STEINEL®

Add size to order number

Nitrogen cylinder — Order number **SZ 7066.2. ☐ x ☐ B**

D	Stroke	L	N±0.2	d	M	H				Burst pressure	Filling thread	Pos. Filling thread	Cylinder mounting	
mm	mm	mm	mm	mm	mm	mm	bar	daN	daN	bar				
32	5	50	55	18	M6	6	196	500	800	470	M8	Centred		032 x 005 B
	10	55	65											032 x 010 B
	15	60	75											032 x 015 B
	19	64	83											032 x 019 B
	25	70	95											032 x 025 B
	32	77	109											032 x 032 B
	38	83	121											032 x 038 B
	50	95	145											032 x 050 B
	63	108	171											032 x 063 B
	80	125	205											032 x 080 B
	100	145	245											032 x 100 B
	125	170	295											032 x 125 B
38	5	50	55	22	M6	6	197	750	1200	470	M8	Centred		038 x 005 B
	10	55	65											038 x 010 B
	15	60	75											038 x 015 B
	19	64	83											038 x 019 B
	25	70	95											038 x 025 B
	32	77	109											038 x 032 B
	38	83	121											038 x 038 B
	50	95	145											038 x 050 B
	63	108	171											038 x 063 B
	80	125	205											038 x 080 B
	100	145	245											038 x 100 B
	125	180	305											038 x 125 B
	170*	215	385											038 x 170 B
50	5	55	60	30	M8	10	212	1500	2400	500	M10	Centred		050 x 005 B
	10	60	70											050 x 010 B
	15	65	80											050 x 015 B
	19	69	88											050 x 019 B
	25	75	100											050 x 025 B
	32	82	114											050 x 032 B
	38	88	126											050 x 038 B
	50	100	150											050 x 050 B
	63	113	176											050 x 063 B
	80	130	210											050 x 080 B
	100	150	250											050 x 100 B
	125	190	315											050 x 125 B
	160*	235	395											050 x 160 B
	180*	255	435											050 x 180 B
	200*	275	475											050 x 200 B
	240*	315	555											050 x 240 B
63	5	60	65	38	M8	10	176	2000	3200	430	M10	Centred		063 x 005 B
	10	65	75											063 x 010 B
	15	70	85											063 x 015 B
	19	74	93											063 x 019 B
	25	80	105											063 x 025 B
	32	87	119											063 x 032 B
	38	93	131											063 x 038 B
	50	105	155											063 x 050 B
	63	118	181											063 x 063 B
	80	135	215											063 x 080 B
	100	160	260											063 x 100 B
	125	190	315											063 x 125 B
	160*	235	395											063 x 160 B
	200*	275	475											063 x 200 B
75	5	60	65	45	M8	10	189	3000	4800	450	M12	Centred		063 x 005 B
	10	65	75											075 x 010 B
	15	70	85											063 x 015 B
	19	74	93											063 x 019 B
	25	80	105											075 x 025 B
	32	87	119											063 x 032 B
	38	93	131											075 x 038 B
	50	105	155											075 x 050 B
	63	118	181											075 x 063 B
	80	135	215											075 x 080 B
	100	155	255											075 x 100 B
	125	200	325											075 x 125 B
	160*	250	410											063 x 160 B
	200*	300	500											063 x 200 B
95	5	70	75	55	M8	10	210	5000	8000	500	M12	Centred		095 x 005 B
	10	75	85											095 x 010 B
	15	80	95											095 x 015 B
	19	84	103											095 x 019 B
	25	90	115											095 x 025 B
	32	97	129											095 x 032 B
	38	103	141											095 x 038 B
	50	115	165											095 x 050 B
	63	128	191											095 x 063 B
	80	155	235											095 x 080 B
	100	185	285											095 x 100 B
	125	220	345											095 x 125 B
	160*	260	420											095 x 160 B
	200*	310	510											095 x 200 B

* Special and intermediate strokes upon request

Nitrogen cylinders SZ 7066.2.V

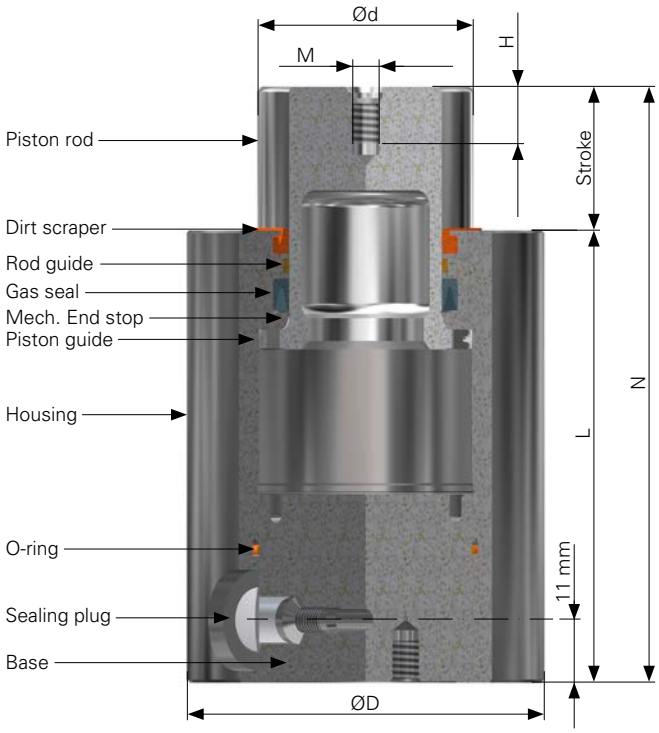
extra heavy load, connecting nitrogen cylinders

Explanation:
STEINEL nitrogen cylinders **SZ 7066.2.V** can be filled with standard nitrogen.
Nitrogen N_2 is a neutral, non-hazardous gas.

Special features:
- The nitrogen cylinders will be delivered unfilled without a valve
- Maximum force in the smallest of spaces
- Easy to assemble
- No spring breakage
- Recommended stroke reserve of 10 %
- No mechanical preload is necessary
- Easy to use

Multiple-cylinder system:
- The nitrogen cylinders are equipped to be connected on their sides with G1/8 male stud couplings.
- The connection for two screw-on threads is at 90° and at 45° for four screw-on threads.
- The nitrogen cylinders are filled through a connected control panel.

Order example: Nitrogen cylinder **SZ 7066.2**
with a D = 50 and a stroke of 25 mm
Addition **050 x 025 V**
Order number **SZ 7066.2.050 x 025 V**



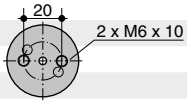
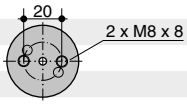
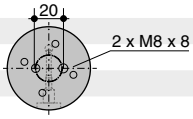
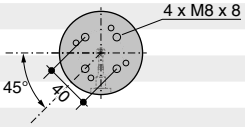
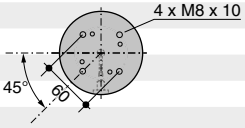
Nitrogen cylinders SZ 7066.2.V

extra heavy load, connecting nitrogen cylinders

STEINEL®

Add size to order number

Nitrogen cylinder — Order number **SZ 7066.2. □ x □ V**

D	Stroke	L	N±0.2	d	M	H	bar	daN	daN	Filling thread	Pos. Filling thread	Cylinder mounting	
mm	mm	mm	mm	mm	mm	mm							
38	5	70	75	22	M6	6	197	750	1200	G1/8	On the side		**038 x 005 V**
	10	75	85										**038 x 010 V**
	15	80	95										**038 x 015 V**
	19	84	103										**038 x 019 V**
	25	90	115										**038 x 025 V**
	32	97	129										**038 x 032 V**
	38	103	141										**038 x 038 V**
	50	115	165										**038 x 050 V**
	63	128	191										**038 x 063 V**
	80	145	225										**038 x 080 V**
	100	165	265										**038 x 100 V**
	125	190	315										**038 x 125 V**
50	5	75	80	30	M8	10	212	1500	2400	G1/8	On the side		**050 x 005 V**
	10	80	90										**050 x 010 V**
	15	85	100										**050 x 015 V**
	19	89	108										**050 x 019 V**
	25	95	120										**050 x 025 V**
	32	102	134										**050 x 032 V**
	38	108	146										**050 x 038 V**
	50	120	170										**050 x 050 V**
	63	133	196										**050 x 063 V**
	80	150	230										**050 x 080 V**
	100	170	270										**050 x 100 V**
	125	210	335										**050 x 125 V**
	160*	255	415										**050 x 160 V**
	200*	295	495										**050 x 200 V**
63	5	80	85	38	M8	10	176	2000	3200	G1/8	On the side		**063 x 005 V**
	10	85	95										**063 x 010 V**
	15	90	105										**063 x 015 V**
	19	94	113										**063 x 019 V**
	25	100	125										**063 x 025 V**
	32	107	139										**063 x 032 V**
	38	113	151										**063 x 038 V**
	50	125	175										**063 x 050 V**
	63	138	201										**063 x 063 V**
	80	155	235										**063 x 080 V**
	100	180	280										**063 x 100 V**
	125	210	335										**063 x 125 V**
	160*	255	415										**063 x 160 V**
	200*	295	495										**063 x 200 V**
75	5	80	85	45	M8	10	189	3000	4800	G1/8	On the side		**075 x 005 V**
	10	85	95										**075 x 010 V**
	15	90	105										**075 x 015 V**
	19	94	113										**075 x 019 V**
	25	100	125										**075 x 025 V**
	32	107	139										**075 x 032 V**
	38	113	151										**075 x 038 V**
	50	125	175										**075 x 050 V**
	63	138	201										**075 x 063 V**
	80	155	235										**075 x 080 V**
	100	175	275										**075 x 100 V**
	125	220	345										**075 x 125 V**
	160*	270	430										**075 x 160 V**
	200*	320	520										**075 x 200 V**
95	5	90	95	55	M8	10	210	5000	8000	G1/8	On the side		**095 x 005 V**
	10	95	105										**095 x 010 V**
	15	100	115										**095 x 015 V**
	19	104	123										**095 x 019 V**
	25	110	135										**095 x 025 V**
	32	117	149										**095 x 032 V**
	38	123	161										**095 x 038 V**
	50	135	185										**095 x 050 V**
	63	148	211										**095 x 063 V**
	80	175	255										**095 x 080 V**
	100	205	305										**095 x 100 V**
	125	240	365										**095 x 125 V**
	160*	280	440										**095 x 160 V**
	200*	330	530										**095 x 200 V**

* Special and intermediate strokes upon request

The nitrogen cylinders will be delivered unfilled.

Nitrogen cylinders SZ 7066.2.VB

extra heavy load, connecting nitrogen cylinders, with integrated burst protection

Explanation:
STEINEL nitrogen cylinders **SZ 7066.2.VB** can be filled with standard nitrogen. Nitrogen N_2 is a neutral, non-hazardous gas.

Special features:
- The nitrogen cylinders will be delivered unfilled without a valve
- With integrated burst protection
- Maximum force in the smallest of spaces
- Easy to assemble
- No spring breakage
- Recommended stroke reserve of 10 %
- No mechanical preload is necessary
- Easy to use

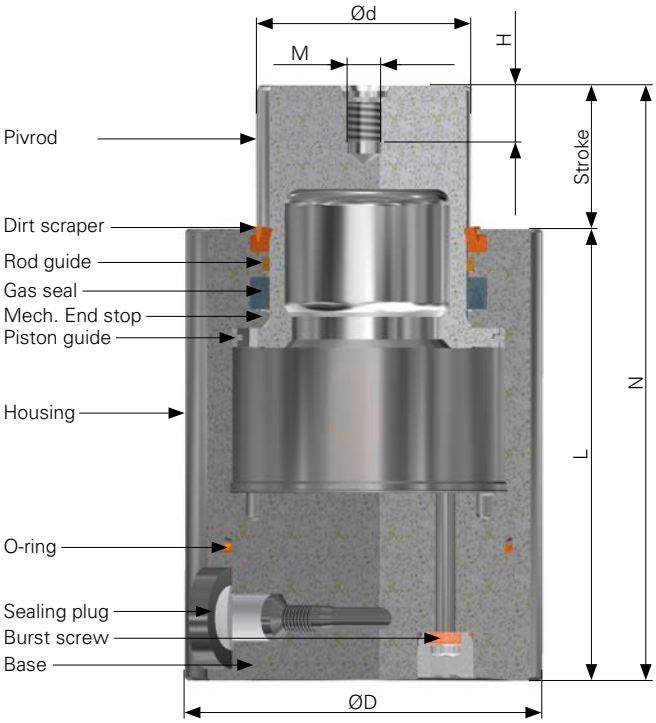
Multiple-cylinder system:
- The nitrogen cylinders are equipped to be connected on their sides with G1/8 male stud couplings.
- The connection for two screw-on threads is at 90° and at 45° for four screw-on threads.
- The nitrogen cylinders are filled through a connected control panel.

Advantages:
- By using a burst screw, the nitrogen cylinder is protected from overpressure damage
- Prevents consequential damage to nitrogen cylinder and tool
- After replacement of the burst screw, a nitrogen cylinder can be filled and used again
- Integrated part

Information for users:
- If the burst pressure is surpassed, forced ventilation occurs and the working pressure is released.
- Following breakage, burst screws are unusable.
- Burst screws are labelled with the burst pressure, which is legible even following breakage.
- An activated burst screw can be replaced by trained personnel.

Order example: Nitrogen cylinder **SZ 7066.2**
with a D = 50 and a stroke of 25 mm
Addition **050 x 025 VB**
Order number **SZ 7066.2.050 x 025 VB**

You can find further information on burst protection on page 5.150

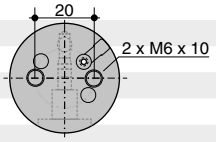
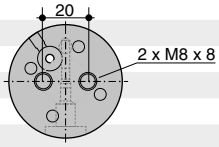
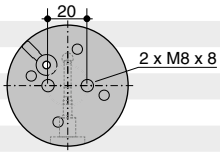
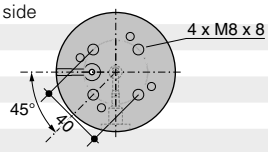
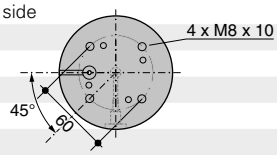


Nitrogen cylinders SZ 7066.2.VB

extra heavy load, connecting nitrogen cylinders, with integrated burst protection

Add size to order number

Nitrogen cylinder — Order number **SZ 7066.2.** ☐ x ☐ **VB**

D	Stroke	L	N±0.2	d	M	H				Burst pressure	Filling thread	Pos. Filling thread	Cylinder mounting	
mm	mm	mm	mm	mm	mm	mm	bar	daN	daN	bar				
38	5	70	75	22	M6	6	197	750	1200	470	G1/8	On the side		038 x 005 VB
	10	75	85											038 x 010 VB
	15	80	95											038 x 015 VB
	19	84	103											038 x 019 VB
	25	90	115											038 x 025 VB
	32	97	129											038 x 032 VB
	38	103	141											038 x 038 VB
	50	115	165											038 x 050 VB
	63	128	191											038 x 063 VB
	80	145	225											038 x 080 VB
	100	165	265											038 x 100 VB
	125	190	315											038 x 125 VB
50	5	75	80	30	M8	10	212	1500	2400	500	G1/8	On the side		050 x 005 VB
	10	80	90											050 x 010 VB
	15	85	100											050 x 015 VB
	19	89	108											050 x 019 VB
	25	95	120											050 x 025 VB
	32	102	134											050 x 032 VB
	38	108	146											050 x 038 VB
	50	120	170											050 x 050 VB
	63	133	196											050 x 063 VB
	80	150	230											050 x 080 VB
	100	170	270											050 x 100 VB
	125	210	335											050 x 125 VB
	160*	255	415											050 x 160 VB
	200*	295	495											050 x 200 VB
63	5	80	85	38	M8	10	176	2000	3200	430	G1/8	On the side		050 x 005 VB
	10	85	95											063 x 010 VB
	15	90	105											050 x 015 VB
	19	94	113											050 x 019 VB
	25	100	125											063 x 025 VB
	32	107	139											050 x 032 VB
	38	113	151											063 x 038 VB
	50	125	175											063 x 050 VB
	63	138	201											063 x 063 VB
	80	155	235											063 x 080 VB
	100	180	280											063 x 100 VB
	125	210	335											063 x 125 VB
	160*	255	415											050 x 160 VB
	200*	295	495											050 x 200 VB
75	5	80	85	45	M8	10	189	3000	4800	450	G1/8	On the side		075 x 005 VB
	10	85	95											075 x 010 VB
	15	90	105											075 x 015 VB
	19	94	113											075 x 019 VB
	25	100	125											075 x 025 VB
	32	107	139											075 x 032 VB
	38	113	151											075 x 038 VB
	50	125	175											075 x 050 VB
	63	138	201											075 x 063 VB
	80	155	235											075 x 080 VB
	100	175	275											075 x 100 VB
	125	220	345											075 x 125 VB
	160*	270	430											075 x 160 VB
	200*	320	520											075 x 200 VB
95	5	90	95	55	M8	10	210	5000	8000	500	G1/8	On the side		095 x 005 VB
	10	95	105											095 x 010 VB
	15	100	115											095 x 015 VB
	19	104	123											095 x 019 VB
	25	110	135											095 x 025 VB
	32	117	149											095 x 032 VB
	38	123	161											095 x 038 VB
	50	135	185											095 x 050 VB
	63	148	211											095 x 063 VB
	80	175	255											095 x 080 VB
	100	205	305											095 x 100 VB
	125	240	365											095 x 125 VB
	160*	280	440											095 x 160 VB
	200*	330	530											095 x 200 VB

* Special and intermediate strokes upon request

The nitrogen cylinders will be delivered unfilled.

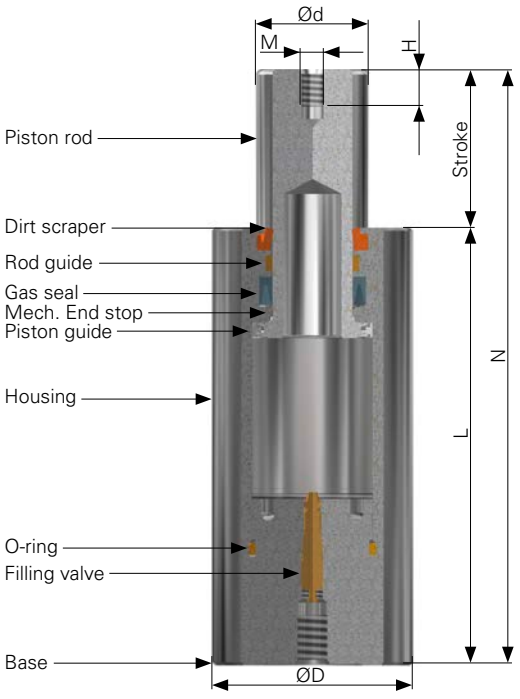
Nitrogen cylinders SZ 8065.2

Explanation:
STEINEL nitrogen cylinders **SZ 8065.2** are filled with standard nitrogen.
Nitrogen N_2 is a neutral, non-hazardous gas.

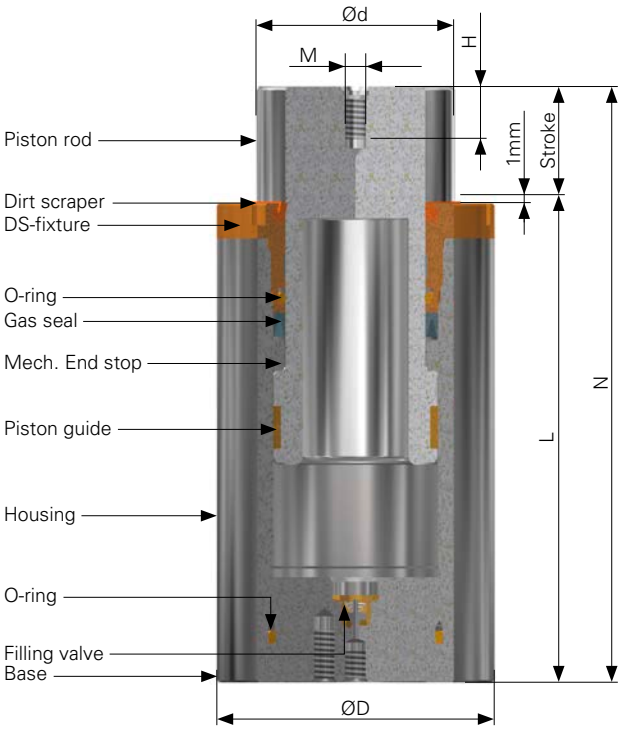
Special features:
- Each nitrogen cylinder forms a functional, closed unit **(autonomous nitrogen cylinders)**
- This series stands out due to its high compressive forces
- Easy to assemble
- No spring breakage
- Recommended stroke reserve of 10 %
- No mechanical preload is necessary
- Easy to use

Order example: Nitrogen cylinder **SZ 8065.2**
with a D = 32 and a stroke of 25 mm
Addition **032 x 025**
Order number **SZ 8065.2.032 x 025**

Nitrogen cylinder from Ø19–Ø32



Nitrogen cylinder from Ø38–Ø95

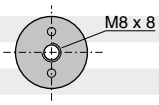
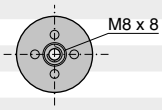
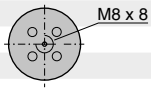
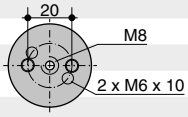
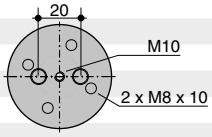
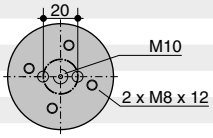
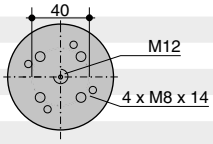
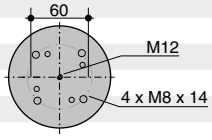


Nitrogen cylinders SZ 8065.2

STEINEL®

Add size to order number

Nitrogen cylinder — Order number **SZ 8065.2.** ☐ x ☐

D	Stroke	L	N±0.2	d	M	H					Pos. Filling thread	Cylinder mounting	
										Filling thread			
mm	mm	mm	mm	mm	mm	mm	bar	daN	daN				
19	10	65	75	11	–	–	158	150	240	M8	Centred		**019 x 010**
	15	70	85										**019 x 015**
	25	80	105										**019 x 025**
	38	97	135										**019 x 038**
	50	110	160										**019 x 050**
	63	127	190										**019 x 063**
	80	140	220										**019 x 080**
25	10	65	75	14	–	–	196	300	480	M8	Centred		**025 x 010**
	15	70	85		–	–							**025 x 015**
	25	80	105		M6	6							**025 x 025**
	38	97	135		M6	6							**025 x 038**
	50	110	160		M6	6							**025 x 050**
	63	127	190		M6	6							**025 x 063**
	80	145	225		M6	6							**025 x 080**
32	10	65	75	18	M6	6	196	500	800	M8	Centred		**032 x 010**
	15	70	85										**032 x 015**
	25	80	105										**032 x 025**
	38	97	135										**032 x 038**
	50	110	160										**032 x 050**
	63	132	195										**032 x 063**
	80	150	230										**032 x 080**
38	10	65	75	25	M8	12	205	1000	1600	M8	Centred		**038 x 010**
	15	70	85										**038 x 015**
	25	80	105										**038 x 025**
	38	97	135										**038 x 038**
	50	110	160										**038 x 050**
	63	142	205										**038 x 063**
	80	160	240										**038 x 080**
50	10	95	105	35	M8	12	209	2000	3200	M8	Centred		**050 x 010**
	15	100	115										**050 x 015**
	25	110	135										**050 x 025**
	38	127	165										**050 x 038**
	50	140	190										**050 x 050**
	63	157	220										**050 x 063**
	80	175	255										**050 x 080**
63	10	95	105	45	M8	12	189	3000	4800	M8	Centred		**063 x 010**
	15	100	115										**063 x 015**
	25	110	135										**063 x 025**
	38	127	165										**063 x 038**
	50	140	190										**063 x 050**
	63	157	220										**063 x 063**
	80	175	255										**063 x 080**
75	10	105	115	56	M8	12	203	5000	8000	M8	Centred		**075 x 010**
	15	110	125										**075 x 015**
	25	120	145										**075 x 025**
	38	137	175										**075 x 038**
	50	150	200										**075 x 050**
	63	177	240										**075 x 063**
	80	195	275										**075 x 080**
95	10	115	125	75	M8	12	182	8000	12800	M8	Centred		**095 x 010**
	15	120	135										**095 x 015**
	25	130	155										**095 x 025**
	38	147	185										**095 x 038**
	50	165	215										**095 x 050**
	63	192	255										**095 x 063**
	80	210	290										**095 x 080**

Nitrogen cylinders SZ 8065.2.B

with integrated burst protection

Explanation:
STEINEL nitrogen cylinders **SZ 8065.2.B** are filled with standard nitrogen. Nitrogen N_2 is a neutral, non-hazardous gas.

Special features:
- Integrated burst protection
- Each nitrogen cylinder forms a functional, closed unit **(autarkic nitrogen cylinder)**
- This series stands out due to its high compressive forces
- Easy to assemble
- No spring breakage
- Recommended stroke reserve of 10 %
- No mechanical preload is necessary
- Easy to use

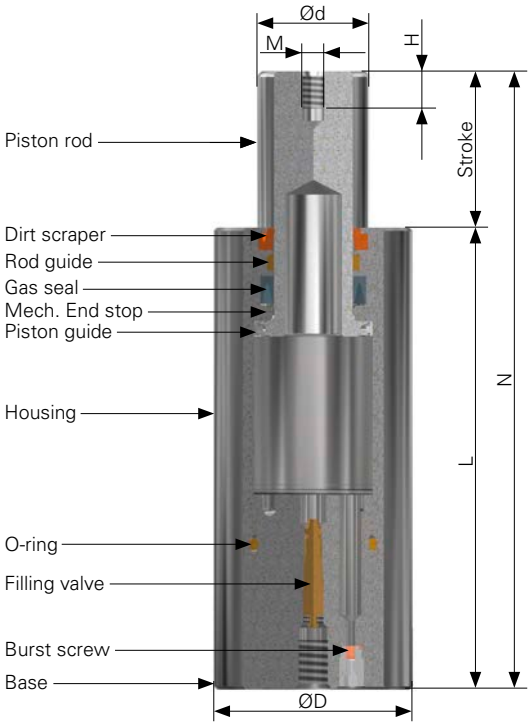
Advantages:
- By using a burst screw, the nitrogen cylinder is protected from overpressure damage
- Prevents consequential damage to nitrogen cylinder and tool
- After replacement of the burst screw, a nitrogen cylinder can be filled and used again
- Integrated part

Information for users:
- If the burst pressure is surpassed, forced ventilation occurs and the working pressure is released.
- Following breakage, burst screws are unusable.
- Burst screws are labelled with the burst pressure, which is legible even following breakage.
- An activated burst screw can be replaced by trained personnel.

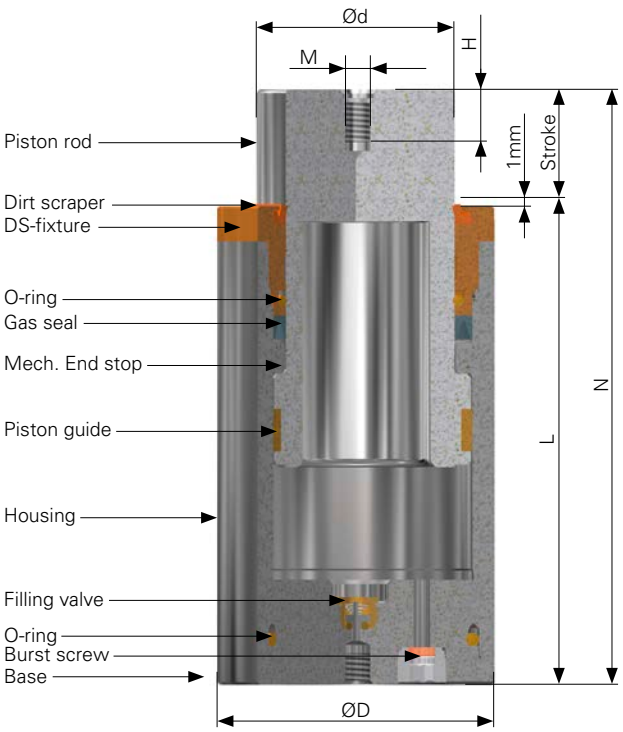
Order example: Nitrogen cylinder **SZ 8065.2**
with a D = 32 and a stroke of 25 mm
Addition **032 x 025 B**
Order number **SZ 8065.2.032 x 025 B**

You can find further information on burst protection on page 5.150

Nitrogen cylinder from Ø32



Nitrogen cylinder from Ø38–Ø95

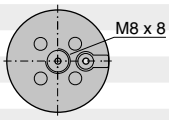
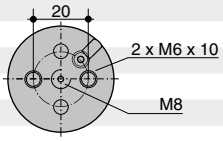
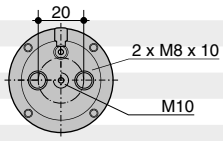
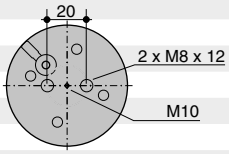
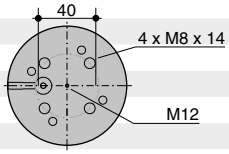
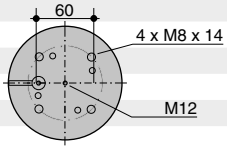


Nitrogen cylinders SZ 8065.2.B

with integrated burst protection

Add size to order number

Nitrogen cylinder — Order number **SZ 8065.2.** ☐ x ☐ **B**

D	Stroke	L	N±0.2	d	M	H				Burst pressure	Filling thread	Pos. Filling thread	Cylinder mounting	
mm	mm	mm	mm	mm	mm	mm	bar	daN	daN	bar				
32	10	65	75	18	M6	6	196	500	800	470	M8	Centred		**032 x 010 B**
	15	70	85											**032 x 015 B**
	25	80	105											**032 x 025 B**
	38	97	135											**032 x 038 B**
	50	110	160											**032 x 050 B**
	63	132	195											**032 x 063 B**
	80	150	230											**032 x 080 B**
38	10	65	75	25	M8	12	205	1000	1600	550	M8	Centred		**038 x 010 B**
	15	70	85											**038 x 015 B**
	25	80	105											**038 x 025 B**
	38	97	135											**038 x 038 B**
	50	110	160											**038 x 050 B**
	63	142	205											**038 x 063 B**
	80	160	240											**038 x 080 B**
50	10	95	105	35	M8	12	209	2000	3200	600	M8	Centred		**050 x 010 B**
	15	100	115											**050 x 015 B**
	25	110	135											**050 x 025 B**
	38	127	165											**050 x 038 B**
	50	140	190											**050 x 050 B**
	63	157	220											**050 x 063 B**
	80	175	255											**050 x 080 B**
63	10	95	105	45	M8	12	189	3000	4800	500	M8	Centred		**063 x 010 B**
	15	100	115											**063 x 015 B**
	25	110	135											**063 x 025 B**
	38	127	165											**063 x 038 B**
	50	140	190											**063 x 050 B**
	63	157	220											**063 x 063 B**
	80	175	255											**063 x 080 B**
75	10	105	115	56	M8	12	203	5000	8000	500	M8	Centred		**075 x 010 B**
	15	110	125											**075 x 015 B**
	25	120	145											**075 x 025 B**
	38	137	175											**075 x 038 B**
	50	150	200											**075 x 050 B**
	63	177	240											**075 x 063 B**
	80	195	275											**075 x 080 B**
95	10	115	125	75	M8	12	182	8000	12800	470	M8	Centred		**095 x 010 B**
	15	120	135											**095 x 015 B**
	25	130	155											**095 x 025 B**
	38	147	185											**095 x 038 B**
	50	165	215											**095 x 050 B**
	63	192	255											**095 x 063 B**
	80	210	290											**095 x 080 B**

Nitrogen cylinders SZ 8065.2.V

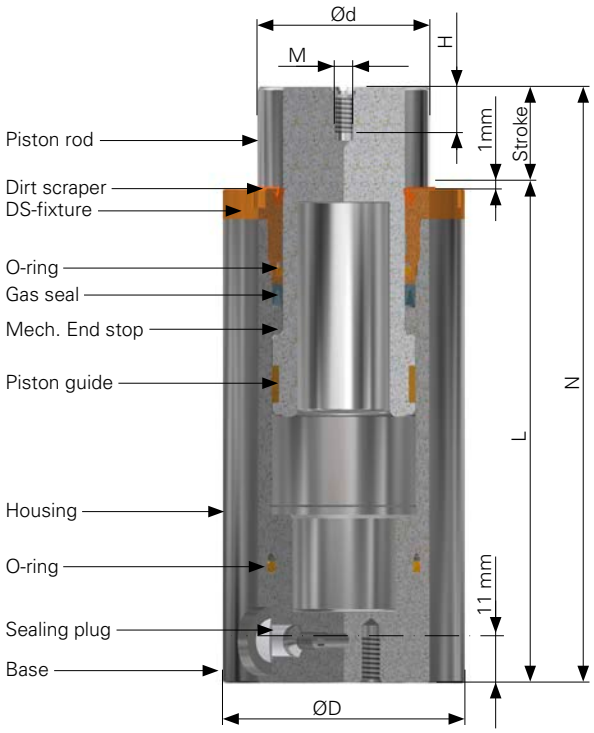
connecting nitrogen cylinders

Explanation:
STEINEL nitrogen cylinders **SZ 8065.2.V** can be filled with standard nitrogen.
Nitrogen N_2 is a neutral, non-hazardous gas.

Special features:
- The nitrogen cylinders will be delivered unfilled without a valve
- Maximum force in the smallest of spaces
- Easy to assemble
- No spring breakage
- Recommended stroke reserve of 10 %
- No mechanical preload is necessary
- Easy to use

Multiple-cylinder system:
- The nitrogen cylinders are equipped to be connected on their sides with G1/8 male stud couplings.
- The connection for two screw-on threads is at 90° and at 45° for four screw-on threads.
- The nitrogen cylinders are filled through a connected control panel.

Order example: Nitrogen cylinder **SZ 8065.2**
with a D = 50 and a stroke of 25 mm
Addition **050 x 025 V**
Order number **SZ 8065.2.050 x 025 V**

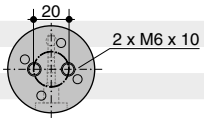
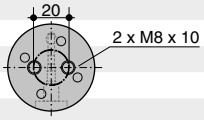
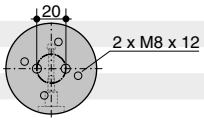
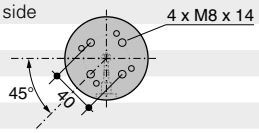
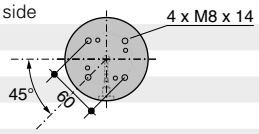


Nitrogen cylinders SZ 8065.2.V

connecting nitrogen cylinders

Add size to order number

Nitrogen cylinder — Order number **SZ 8065.2. ☐ x ☐ V**

D	Stroke	L	N	d	M	H					Pos.		
										Connecting	Connecting		
mm	mm	mm	mm	mm	mm	mm	bar	daN	daN	thread	thread	Cylinder mounting	
38	10	85	95	25	M8	12	205	1000	1600	G1/8	On the side		**038 x 010 V**
	15	90	105										**038 x 015 V**
	25	100	125										**038 x 025 V**
	38	117	155										**038 x 038 V**
	50	130	180										**038 x 050 V**
	63	162	225										**038 x 063 V**
	80	180	260										**038 x 080 V**
50	10	115	125	35	M8	12	209	2000	3200	G1/8	On the side		**050 x 010 V**
	15	120	135										**050 x 015 V**
	25	130	155										**050 x 025 V**
	38	147	185										**050 x 038 V**
	50	160	210										**050 x 050 V**
	63	177	240										**050 x 063 V**
	80	195	275										**050 x 080 V**
63	10	115	125	45	M8	12	189	3000	4800	G1/8	On the side		**063 x 010 V**
	15	120	135										**063 x 015 V**
	25	130	155										**063 x 025 V**
	38	147	185										**063 x 038 V**
	50	160	210										**063 x 050 V**
	63	177	240										**063 x 063 V**
	80	195	275										**063 x 080 V**
75	10	125	135	56	M8	12	203	5000	8000	G1/8	On the side		**075 x 010 V**
	15	130	145										**075 x 015 V**
	25	140	165										**075 x 025 V**
	38	157	195										**075 x 038 V**
	50	170	220										**075 x 050 V**
	63	197	260										**075 x 063 V**
	80	215	295										**075 x 080 V**
95	10	135	145	75	M8	12	182	8000	12800	G1/8	On the side		**095 x 010 V**
	15	140	155										**095 x 015 V**
	25	150	175										**095 x 025 V**
	38	167	205										**095 x 038 V**
	50	185	235										**095 x 050 V**
	63	212	275										**095 x 063 V**
	80	230	310										**095 x 080 V**

If the nitrogen cylinders are to be operated autonomously, it must be specified that they are to be delivered in filled condition. Otherwise, nitrogen cylinders with a "V" in the order code will be delivered unfilled.

Nitrogen cylinders SZ 8065.2.VB

connecting nitrogen cylinders, with integrated burst protection

Explanation:
STEINEL nitrogen cylinders **SZ 8065.2.VB** can be filled with standard nitrogen. Nitrogen N_2 is a neutral, non-hazardous gas.

Special features:
- The nitrogen cylinders will be delivered unfilled without a valve
- With integrated burst protection
- Maximum force in the smallest of spaces
- Easy to assemble
- No spring breakage
- Recommended stroke reserve of 10 %
- No mechanical preload is necessary
- Easy to use

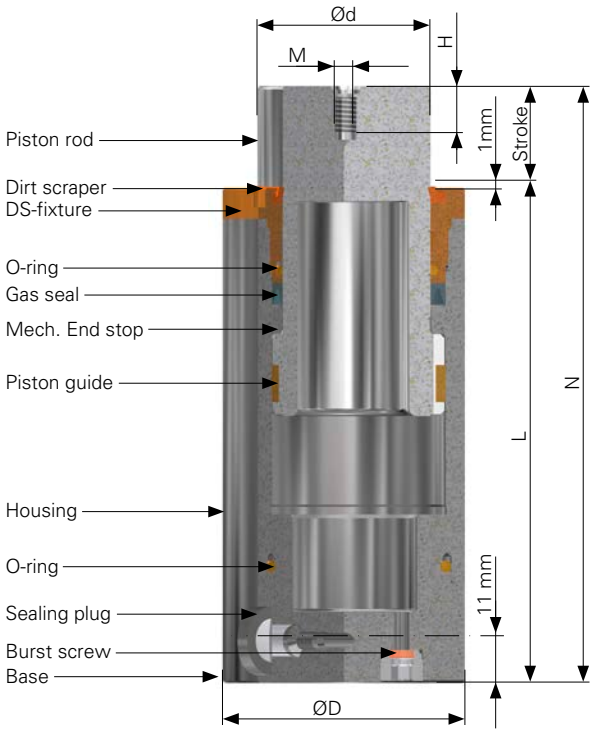
Multiple-cylinder system:
- The nitrogen cylinders are equipped to be connected on their sides with G1/8 male stud couplings.
- The connection for two screw-on threads is at 90° and at 45° for four screw-on threads.
- The nitrogen cylinders are filled through a connected control panel.

Advantages:
- By using a burst screw, the nitrogen cylinder is protected from overpressure damage
- Prevents consequential damage to nitrogen cylinder and tool
- After replacement of the burst screw, a nitrogen cylinder can be filled and used again
- Integrated part

Information for users:
- If the burst pressure is surpassed, forced ventilation occurs and the working pressure is released.
- Following breakage, burst screws are unusable.
- Burst screws are labelled with the burst pressure, which is legible even following breakage.
- An activated burst screw can be replaced by trained personnel.

Order example: Nitrogen cylinder **SZ 8065.2**
with a D = 50 and a stroke of 25 mm
Addition **050 x 025 VB**
Order number **SZ 8065.2.050 x 025 VB**

You can find further information on burst protection on page 5.150

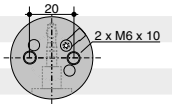
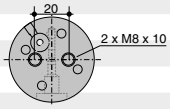
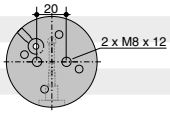
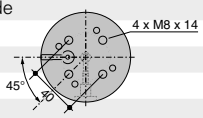
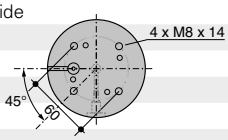


Nitrogen cylinders SZ 8065.2.VB

connecting nitrogen cylinders, with integrated burst protection

Add size to order number

Nitrogen cylinder — Order number **SZ 8065.2.** ☐ x ☐ **VB**

D	Stroke	L	N	d	M	H				Burst pressure	Con-necting thread	Pos. con-necting thread	Cylinder mounting	
mm	mm	mm	mm	mm	mm	mm	bar	daN	daN	bar				
38	10	85	95	25	M8	12	205	1000	1600	550	G1/8	On the side		**038 x 010 VB**
	15	90	105											**038 x 015 VB**
	25	100	125											**038 x 025 VB**
	38	117	155											**038 x 038 VB**
	50	130	180											**038 x 050 VB**
	63	162	225											**038 x 063 VB**
	80	180	260											**038 x 080 VB**
50	10	115	125	35	M8	12	209	2000	3200	600	G1/8	On the side		**050 x 010 VB**
	15	120	135											**050 x 015 VB**
	25	130	155											**050 x 025 VB**
	38	147	185											**050 x 038 VB**
	50	160	210											**050 x 050 VB**
	63	177	240											**050 x 063 VB**
	80	195	275											**050 x 080 VB**
63	10	115	125	45	M8	12	189	3000	4800	500	G1/8	On the side		**063 x 010 VB**
	15	120	135											**063 x 015 VB**
	25	130	155											**063 x 025 VB**
	38	147	185											**063 x 038 VB**
	50	160	210											**063 x 050 VB**
	63	177	240											**063 x 063 VB**
	80	195	275											**063 x 080 VB**
75	10	125	135	56	M8	12	203	5000	8000	500	G1/8	On the side		**075 x 010 VB**
	15	130	145											**075 x 015 VB**
	25	140	165											**075 x 025 VB**
	38	157	195											**075 x 038 VB**
	50	170	220											**075 x 050 VB**
	63	197	260											**075 x 063 VB**
	80	215	295											**075 x 080 VB**
95	10	135	145	75	M8	12	182	8000	12800	470	G1/8	On the side		**095 x 010 VB**
	15	140	155											**095 x 015 VB**
	25	150	175											**095 x 025 VB**
	38	167	205											**095 x 038 VB**
	50	185	235											**095 x 050 VB**
	63	212	275											**095 x 063 VB**
	80	230	310											**095 x 080 VB**

If the nitrogen cylinders are to be operated autonomously, it must be specified that they are to be delivered in filled condition. Otherwise, nitrogen cylinders with "VB" in the order code will be delivered unfilled.

Nitrogen cylinders SZ 8065.2.VZ

connecting nitrogen cylinders, two connections, with integrated burst protection

Explanation:
STEINEL nitrogen cylinders **SZ 8065.2.VZ** can be filled with standard nitrogen. Nitrogen N_2 is a neutral, non-hazardous gas.

Special features:
- The nitrogen cylinders will be delivered unfilled without a valve
- With integrated burst protection
- Maximum force in the smallest of spaces
- Easy to assemble
- No spring breakage
- Recommended stroke reserve of 10 %
- No mechanical preload is necessary
- Easy to use

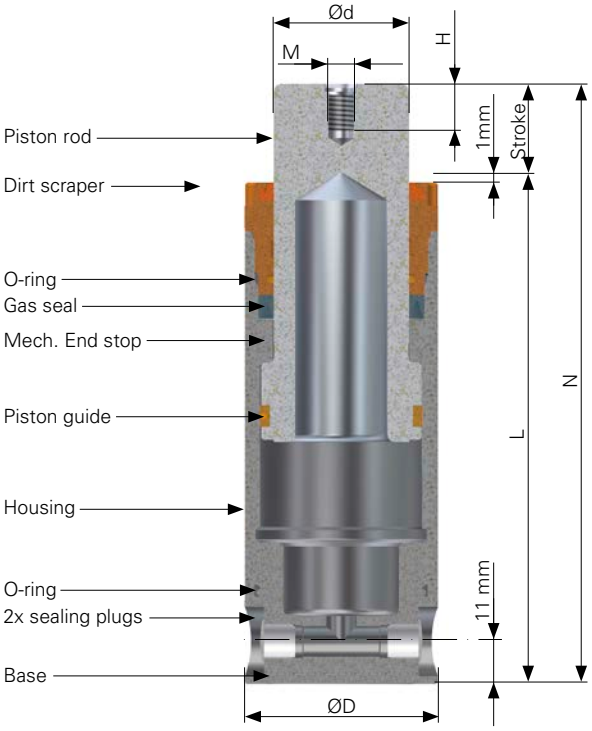
Multiple-cylinder system:
- The nitrogen cylinders are equipped to be connected on their sides with G1/8 male stud couplings.
- The connection for two screw-on threads is at 90° and at 45° for four screw-on threads.
- The nitrogen cylinders are filled through a connected control panel.

Advantages:
- By using a burst screw, the nitrogen cylinder is protected from overpressure damage
- Prevents consequential damage to nitrogen cylinder and tool
- After replacement of the burst screw, a nitrogen cylinder can be filled and used again
- Integrated part

Information for users:
- If the burst pressure is surpassed, forced ventilation occurs and the working pressure is released.
- Following breakage, burst screws are unusable.
- Burst screws are labelled with the burst pressure, which is legible even following breakage.
- An activated burst screw can be replaced by trained personnel.

Order example: Nitrogen cylinder **SZ 8065.2**
with a D = 50 and a stroke of 25 mm
Addition **050 x 025 VZ**
Order number **SZ 8065.2.050 x 025 VZ**

You can find further information on burst protection on page 5.150

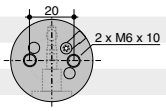
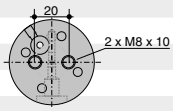
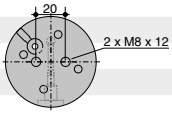
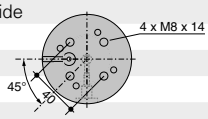
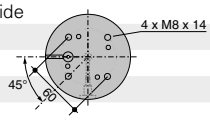


Nitrogen cylinders SZ 8065.2.VZ

connecting nitrogen cylinders, two connections, with integrated burst protection

Add size to order number

Nitrogen cylinder — Order number **SZ 8065.2.** ☐ x ☐ **VZ**

D	Stroke	L	N	d	M	H				Burst pressure	Con-necting thread	Pos. 2 x con-necting threads	Cylinder mounting	
mm	mm	mm	mm	mm	mm	mm	bar	daN	daN	bar				
38	10	85	95	25	M8	12	205	1000	1600	550	G1/8	On the side		**038 x 010 VZ**
	15	90	105											**038 x 015 VZ**
	25	100	125											**038 x 025 VZ**
	38	117	155											**038 x 038 VZ**
	50	130	180											**038 x 050 VZ**
	63	162	225											**038 x 063 VZ**
	80	180	260											**038 x 080 VZ**
50	10	115	125	35	M8	12	209	2000	3200	600	G1/8	On the side		**050 x 010 VZ**
	15	120	135											**050 x 015 VZ**
	25	130	155											**050 x 025 VZ**
	38	147	185											**050 x 038 VZ**
	50	160	210											**050 x 050 VZ**
	63	177	240											**050 x 063 VZ**
	80	195	275											**050 x 080 VZ**
63	10	115	125	45	M8	12	189	3000	4800	500	G1/8	On the side		**063 x 010 VZ**
	15	120	135											**063 x 015 VZ**
	25	130	155											**063 x 025 VZ**
	38	147	185											**063 x 038 VZ**
	50	160	210											**063 x 050 VZ**
	63	177	240											**063 x 063 VZ**
	80	195	275											**063 x 080 VZ**
75	10	125	135	56	M8	12	203	5000	8000	500	G1/8	On the side		**075 x 010 VZ**
	15	130	145											**075 x 015 VZ**
	25	140	165											**075 x 025 VZ**
	38	157	195											**075 x 038 VZ**
	50	170	220											**075 x 050 VZ**
	63	197	260											**075 x 063 VZ**
	80	215	295											**075 x 080 VZ**
95	10	135	145	75	M8	12	182	8000	12800	470	G1/8	On the side		**095 x 010 VZ**
	15	140	155											**095 x 015 VZ**
	25	150	175											**095 x 025 VZ**
	38	167	205											**095 x 038 VZ**
	50	185	235											**095 x 050 VZ**
	63	212	275											**095 x 063 VZ**
	80	230	310											**095 x 080 VZ**

Nitrogen cylinders are not filled.

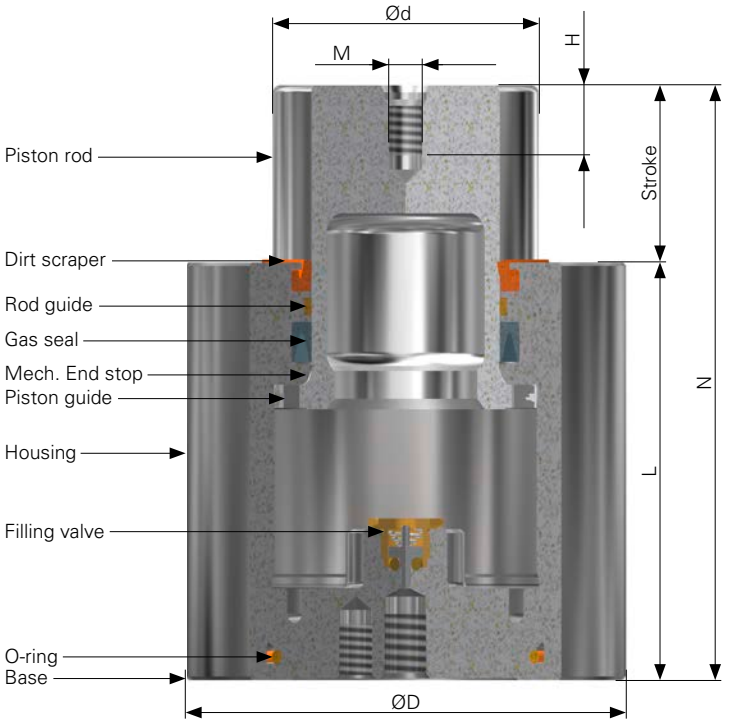
Nitrogen cylinders SZ 8063.1

Explanation:
STEINEL nitrogen cylinders **SZ 8063.1** are filled with standard nitrogen. Nitrogen N_2 is a neutral, non-hazardous gas.

Special features:
- Each nitrogen cylinder forms a functional, closed unit **(compact unit)**
- Maximum force in the smallest of spaces
- Easy to assemble
- No spring breakage
- Recommended stroke reserve of 10 %
- No mechanical preload is necessary
- Easy to use

Note:
Nitrogen cylinders with diameters starting at 38 mm that were specifically designed for being used in a multiple-cylinder system are listed in the section Nitrogen cylinders V, VB, VZ.

Order example: Nitrogen cylinder **SZ 8063.1**
with D = 50 and a stroke of 25 mm.
Addition **050 x 025**
Order number **SZ 8063.1.050 x 025**



Nitrogen cylinders SZ 8063.1

STEINEL®

Add size to order number

Nitrogen cylinder — Order number **SZ 8063.1.** ☐ x ☐

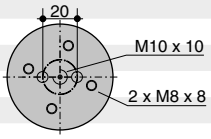
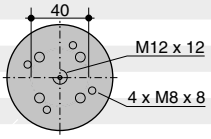
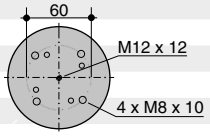
D	Stroke	L	N±0.2	d	M	H					Pos. Filling thread	Cylinder mounting	
										Filling thread			
mm	mm	mm	mm	mm	mm	mm	bar	daN	daN				
19	5	35	40	11	–	–	179	170	270	Centred	Centred		019 x 005
	10	40	50									M8 x 8	019 x 010
	15	45	60										019 x 015
	19	49	68										019 x 019
	25	55	80										019 x 025
	32	62	94										019 x 032
	38	68	106										019 x 038
	50	80	130										019 x 050
	63	93	156										019 x 063
	80	115	195										019 x 080
	100	135	235										019 x 100
	125	160	285										019 x 125
25	5*	35	40	14	–	–	195	300	480	Centred	Centred		025 x 005
	10*	40	50		–	–						M8 x 8	025 x 010
	15*	45	60		–	–							025 x 015
	19*	49	68		–	–							025 x 019
	25	55	80		M6	6							025 x 025
	32	62	94		M6	6							025 x 032
	38	68	106		M6	6							025 x 038
	50	80	130		M6	6							025 x 050
	63	93	156		M6	6							025 x 063
	80	110	190		M6	6							025 x 080
	100	130	230		M6	6							025 x 100
	125	155	280		M6	6							025 x 125
32	5*	35	40	18	–	–	196	500	800	Centred	Centred		032 x 005
	10	40	50		M6	6						M6 x 6	032 x 010
	15	45	60		M6	6							032 x 015
	19	49	68		M6	6							032 x 019
	25	55	80		M6	6							032 x 025
	32	62	94		M6	6							032 x 032
	38	68	106		M6	6							032 x 038
	50	80	130		M6	6							032 x 050
	63	93	156		M6	6							032 x 063
	80	110	190		M6	6							032 x 080
	100	130	230		M6	6							032 x 100
	125	155	280		M6	6							032 x 125
38	5*	35	40	22	–	–	197	750	1200	Centred	Centred		038 x 005
	10	40	50		M6	6						M8 x 11	038 x 010
	15	45	60		M6	6							038 x 015
	19	49	68		M6	6							038 x 019
	25	55	80		M6	6							038 x 025
	32	62	94		M6	6							038 x 032
	38	68	106		M6	6							038 x 038
	50	80	130		M6	6							038 x 050
	63	93	156		M6	6							038 x 063
	80	110	190		M6	6							038 x 080
	100	130	230		M6	6							038 x 100
	125	155	280		M6	6							038 x 125
50	5*	40	45	30	–	–	212	1500	2400	Centred	Centred		050 x 005
	10	45	55		M8	10						20	050 x 010
	15	50	65		M8	10						M10 x 10	050 x 015
	19	54	73		M8	10							050 x 019
	25	60	85		M8	10						2 x M8 x 8	050 x 025
	32	67	99		M8	10							050 x 032
	38	73	111		M8	10							050 x 038
	50	85	135		M8	10							050 x 050
	63	98	161		M8	10							050 x 063
	80	120	200		M8	10							050 x 080
	100	135	235		M8	10							050 x 100
	125	160	285		M8	10							050 x 125

* Piston rod without thread

Nitrogen cylinders SZ 8063.1

Add size to order number

Nitrogen cylinder — Order number **SZ 8063.1.** ☐ x ☐

D	Stroke	L	N±0.2	d	M	H				Filling thread	Pos. Filling thread	Cylinder mounting	
mm	mm	mm	mm	mm	mm	mm	bar	daN	daN				
63	5*	40	45	38	–	–	176	2000	3200	Centred	Centred		**063 x 005**
	10	45	55		M8	10							**063 x 010**
	15	50	65		M8	10							**063 x 015**
	19	54	73		M8	10							**063 x 019**
	25	60	85		M8	10							**063 x 025**
	32	67	99		M8	10							**063 x 032**
	38	73	111		M8	10							**063 x 038**
	50	85	135		M8	10							**063 x 050**
	63	98	161		M8	10							**063 x 063**
	80	120	200		M8	10							**063 x 080**
	100	135	235		M8	10							**063 x 100**
	125	160	285		M8	10							**063 x 125**
75	5*	45	50	45	–	–	189	3000	4800	Centred	Centred		**075 x 005**
	10	50	60		M8	10							**075 x 010**
	15	55	70		M8	10							**075 x 015**
	19	59	78		M8	10							**075 x 019**
	25	65	90		M8	10							**075 x 025**
	32	72	104		M8	10							**075 x 032**
	38	78	116		M8	10							**075 x 038**
	50	90	140		M8	10							**075 x 050**
	63	103	166		M8	10							**075 x 063**
	80	125	205		M8	10							**075 x 080**
	100	145	245		M8	10							**075 x 100**
	125	170	295		M8	10							**075 x 125**
95	5*	55	60	55	–	–	210	5000	8000	Centred	Centred		**095 x 005**
	10	60	70		M8	10							**095 x 010**
	15	65	80		M8	10							**095 x 015**
	19	69	88		M8	10							**095 x 019**
	25	75	100		M8	10							**095 x 025**
	32	82	114		M8	10							**095 x 032**
	38	87	125		M8	10							**095 x 038**
	50	100	150		M8	10							**095 x 050**
	63	113	176		M8	10							**095 x 063**
	80	130	210		M8	10							**095 x 080**
	100	150	250		M8	10							**095 x 100**
	125	175	300		M8	10							**095 x 125**

* Piston rod without thread

Nitrogen cylinders SZ 8063.1.B

with integrated burst protection

Explanation:
STEINEL nitrogen cylinders **SZ 8063.1.B** are filled with standard nitrogen. Nitrogen N_2 is a neutral, non-hazardous gas.

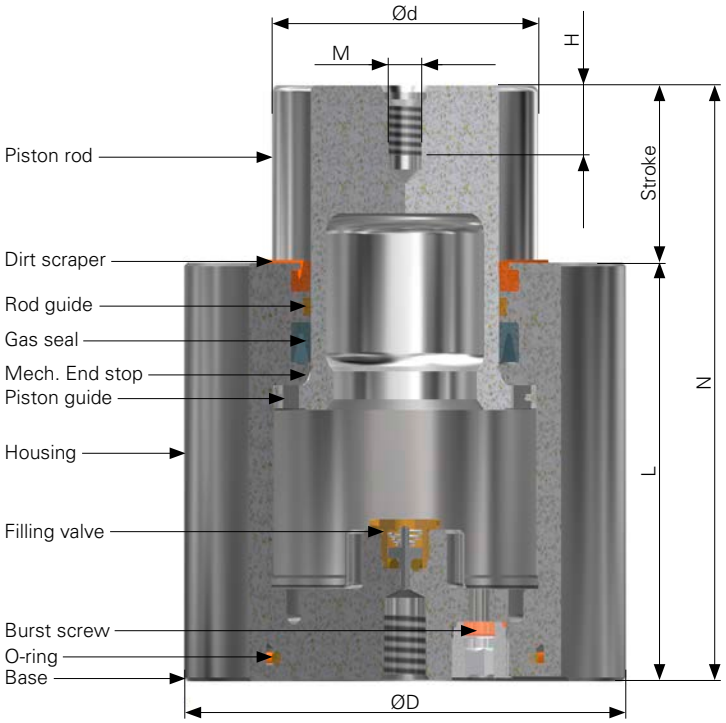
Special features:
- Integrated burst protection
- Each nitrogen cylinder forms a functional, closed unit **(autonomous nitrogen cylinders)**
- Maximum force in the smallest of spaces
- Easy to assemble
- No spring breakage
- Recommended stroke reserve of 10 %
- No mechanical preload is necessary
- Easy to use

Advantages:
- By using a burst screw, the nitrogen cylinder is protected from overpressure damage
- Prevents consequential damage to nitrogen cylinder and tool
- After replacement of the burst screw, a nitrogen cylinder can be filled and used again
- Integrated part

Information for users:
- If the burst pressure is surpassed, forced ventilation occurs and the working pressure is released.
- Following breakage, burst screws are unusable.
- Burst screws are labelled with the burst pressure, which is legible even following breakage.
- An activated burst screw can be replaced by trained personnel.

Order example: Nitrogen cylinder: **SZ 8063.1**
with D = 50 and a stroke of 25 mm.
Addition **050 x 025 B**
Order number **SZ 8063.1.050 x 025 B**

You can find further information on burst protection on page 5.150

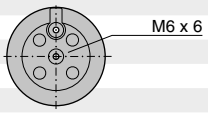
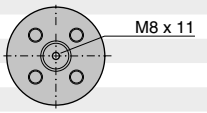
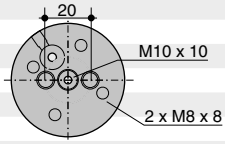
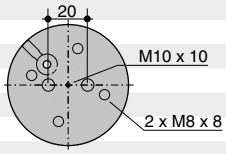
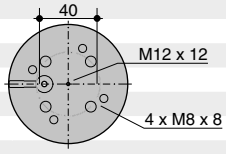
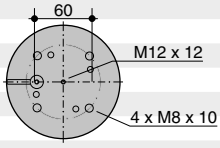


Nitrogen cylinders SZ 8063.1.B

with integrated burst protection

Add size to order number

Nitrogen cylinder — Order number **SZ 8063.1. ▭ x ▭ B**

D	Stroke	L	N±0.2	d	M	H				Burst pressure	Filling thread	Pos. filling thread	Cylinder mounting	
mm	mm	mm	mm	mm	mm	mm	bar	daN	daN	bar				
32	5*	35	40	18	–	–	196	500	800	470	Centred	Centred		032 x 005 B
	10	40	50		M6	6								032 x 010 B
	15	45	60		M6	6								032 x 015 B
	19	49	68		M6	6								032 x 019 B
	25	55	80		M6	6								032 x 025 B
	32	62	94		M6	6								032 x 032 B
	38	68	106		M6	6								032 x 038 B
	50	80	130		M6	6								032 x 050 B
	63	93	156		M6	6								032 x 063 B
	80	110	190		M6	6								032 x 080 B
	100	130	230		M6	6								032 x 100 B
	125	155	280		M6	6								032 x 125 B
38	5*	35	40	22	–	–	197	750	1200	470	Centred	Centred		038 x 005 B
	10	40	50		M6	6								038 x 010 B
	15	45	60		M6	6								038 x 015 B
	19	49	68		M6	6								038 x 019 B
	25	55	80		M6	6								038 x 025 B
	32	62	94		M6	6								038 x 032 B
	38	68	106		M6	6								038 x 038 B
	50	80	130		M6	6								038 x 050 B
	63	93	156		M6	6								038 x 063 B
	80	110	190		M6	6								038 x 080 B
	100	130	230		M6	6								038 x 100 B
	125	155	280		M6	6								038 x 125 B
50	5*	40	45	30	–	–	212	1500	2400	500	Centred	Centred		050 x 005 B
	10	45	55		M8	10								050 x 010 B
	15	50	65		M8	10								050 x 015 B
	19	54	73		M8	10								050 x 019 B
	25	60	85		M8	10								050 x 025 B
	32	67	99		M8	10								050 x 032 B
	38	73	111		M8	10								050 x 038 B
	50	85	135		M8	10								050 x 050 B
	63	98	161		M8	10								050 x 063 B
	80	120	200		M8	10								050 x 080 B
	100	135	235		M8	10								050 x 100 B
	125	160	285		M8	10								050 x 125 B
63	5*	40	45	38	–	–	176	2000	3200	430	Centred	Centred		063 x 005 B
	10	45	55		M8	10								063 x 010 B
	15	50	65		M8	10								063 x 015 B
	19	54	73		M8	10								063 x 019 B
	25	60	85		M8	10								063 x 025 B
	32	67	99		M8	10								063 x 032 B
	38	73	111		M8	10								063 x 038 B
	50	85	135		M8	10								063 x 050 B
	63	98	161		M8	10								063 x 063 B
	80	120	200		M8	10								063 x 080 B
	100	135	235		M8	10								063 x 100 B
	125	160	285		M8	10								063 x 125 B
75	5*	45	50	45	–	–	189	3000	4800	450	Centred	Centred		075 x 005 B
	10	50	60		M8	10								075 x 010 B
	15	55	70		M8	10								075 x 015 B
	19	59	78		M8	10								075 x 019 B
	25	65	90		M8	10								075 x 025 B
	32	72	104		M8	10								075 x 032 B
	38	78	116		M8	10								075 x 038 B
	50	90	140		M8	10								075 x 050 B
	63	103	166		M8	10								075 x 063 B
	80	125	205		M8	10								075 x 080 B
	100	145	245		M8	10								075 x 100 B
	125	170	295		M8	10								075 x 125 B
95	5*	55	60	55	–	–	210	5000	8000	500	Centred	Centred		095 x 005 B
	10	60	70		M8	10								095 x 010 B
	15	65	80		M8	10								095 x 015 B
	19	69	88		M8	10								095 x 019 B
	25	75	100		M8	10								095 x 025 B
	32	82	114		M8	10								095 x 032 B
	38	87	125		M8	10								095 x 038 B
	50	100	150		M8	10								095 x 050 B
	63	113	176		M8	10								095 x 063 B
	80	130	210		M8	10								095 x 080 B
	100	150	250		M8	10								095 x 100 B
	125	175	300		M8	10								095 x 125 B

* Piston rod without thread

Nitrogen cylinders SZ 8063.1.PD

composite plate, direct version

Explanation:
STEINEL nitrogen cylinders **SZ 8063.1.PD** can be filled with standard nitrogen. Nitrogen N_2 is a neutral, non-hazardous gas.

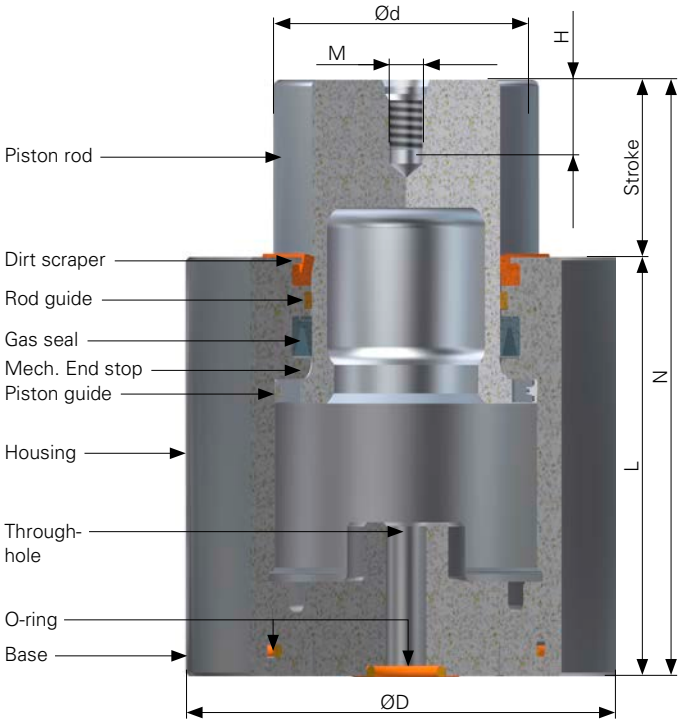
Special features:

- The nitrogen cylinders will be delivered unfilled without a valve
- There is a depression in the middle of the base with an inlaid O-ring
- Maximum force in the smallest of spaces
- Easy to assemble
- No spring breakage
- Recommended stroke reserve of 10 %
- No mechanical preload is necessary
- Easy to use

Multiple-cylinder system:

- The nitrogen cylinders are screwed on through the composite panel by means of the base mounting threads.
- The composite panel must be flat and have a minimum surface roughness of Rz 6.3 in the area where the nitrogen cylinder will be placed on it.
- The nitrogen cylinders are filled by means of a control panel that is connected to the composite panel.
- 1 % of the volume of composite plate nitrogen cylinders must be filled with oil.

Order example: Nitrogen cylinder **SZ 8063.1**
with D = 50 and a stroke of 25 mm.
Addition **050 x 025 PD**
Order number **SZ 8063.1.050 x 025 PD**



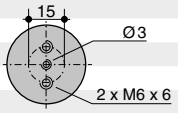
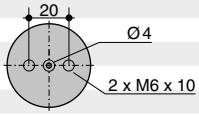
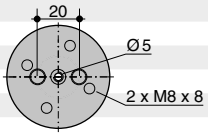
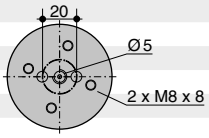
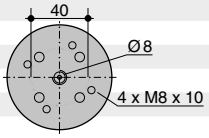
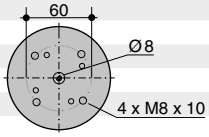
Nitrogen cylinders SZ 8063.1.PD

composite plate, direct version

STEINEL®

Add size to order number

Nitrogen cylinder — Order number **SZ 8063.1. □ x □ PD**

D	Stroke	L	N	d	M	H					
mm	mm	mm	mm	mm	mm	mm	bar	daN	daN	Cylinder mounting	
32	5*	35	40	18	–	–	196	500	800		032 x 005 PD
	10	40	50		M6	6					032 x 010 PD
	15	45	60		M6	6					032 x 015 PD
	19	49	68		M6	6					032 x 019 PD
	25	55	80		M6	6					032 x 025 PD
	32	62	94		M6	6					032 x 032 PD
	38	68	106		M6	6					032 x 038 PD
	50	80	130		M6	6					032 x 050 PD
	63	93	156		M6	6					032 x 063 PD
	80	110	190		M6	6					032 x 080 PD
	100	130	230		M6	6					032 x 100 PD
	125	155	280		M6	6					032 x 125 PD
38	5*	35	40	22	–	–	197	750	1200		038 x 005 PD
	10	40	50		M6	6					038 x 010 PD
	15	45	60		M6	6					038 x 015 PD
	19	49	68		M6	6					038 x 019 PD
	25	55	80		M6	6					038 x 025 PD
	32	62	94		M6	6					038 x 032 PD
	38	68	106		M6	6					038 x 038 PD
	50	80	130		M6	6					038 x 050 PD
	63	93	156		M6	6					038 x 063 PD
	80	110	190		M6	6					038 x 080 PD
	100	130	230		M6	6					038 x 100 PD
	125	155	280		M6	6					038 x 125 PD
50	5*	40	45	30	–	–	212	1500	2400		050 x 005 PD
	10	45	55		M8	10					050 x 010 PD
	15	50	65		M8	10					050 x 015 PD
	19	54	73		M8	10					050 x 019 PD
	25	60	85		M8	10					050 x 025 PD
	32	67	99		M8	10					050 x 032 PD
	38	73	111		M8	10					050 x 038 PD
	50	85	135		M8	10					050 x 050 PD
	63	98	161		M8	10					050 x 063 PD
	80	120	200		M8	10					050 x 080 PD
	100	135	235		M8	10					050 x 100 PD
	125	160	285		M8	10					050 x 125 PD
63	5*	40	45	38	–	–	176	2000	3200		063 x 005 PD
	10	45	55		M8	10					063 x 010 PD
	15	50	65		M8	10					063 x 015 PD
	19	54	73		M8	10					063 x 019 PD
	25	60	85		M8	10					063 x 025 PD
	32	67	99		M8	10					063 x 032 PD
	38	73	111		M8	10					063 x 038 PD
	50	85	135		M8	10					063 x 050 PD
	63	98	161		M8	10					063 x 063 PD
	80	120	200		M8	10					063 x 080 PD
	100	135	235		M8	10					063 x 100 PD
	125	160	285		M8	10					063 x 125 PD
75	5*	45	50	45	–	–	189	3000	4800		075 x 005 PD
	10	50	60		M8	10					075 x 010 PD
	15	55	70		M8	10					075 x 015 PD
	19	59	78		M8	10					075 x 019 PD
	25	65	90		M8	10					075 x 025 PD
	32	72	104		M8	10					075 x 032 PD
	38	78	116		M8	10					075 x 038 PD
	50	90	140		M8	10					075 x 050 PD
	63	103	166		M8	10					075 x 063 PD
	80	125	205		M8	10					075 x 080 PD
	100	145	245		M8	10					075 x 100 PD
	125	170	295		M8	10					075 x 125 PD
95	5*	55	60	55	–	–	210	5000	8000		095 x 005 PD
	10	60	70		M8	10					095 x 010 PD
	15	65	80		M8	10					095 x 015 PD
	19	69	88		M8	10					095 x 019 PD
	25	75	100		M8	10					095 x 025 PD
	32	82	114		M8	10					095 x 032 PD
	38	87	125		M8	10					095 x 038 PD
	50	100	150		M8	10					095 x 050 PD
	63	113	176		M8	10					095 x 063 PD
	80	130	210		M8	10					095 x 080 PD
	100	150	250		M8	10					095 x 100 PD
	125	175	300		M8	10					095 x 125 PD

* Piston rod without thread

Nitrogen cylinders SZ 8063.1.V

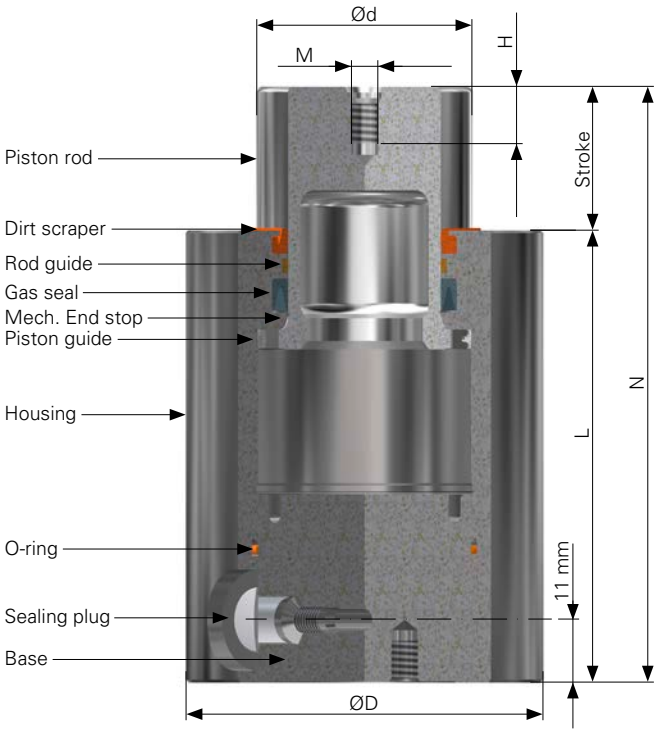
connecting nitrogen cylinders

Explanation:
STEINEL nitrogen cylinders **SZ 8063.1.V** can be filled with standard nitrogen.
Nitrogen N_2 is a neutral, non-hazardous gas.

Special features:
- The nitrogen cylinders will be delivered unfilled without a valve
- Maximum force in the smallest of spaces
- Easy to assemble
- No spring breakage
- Recommended stroke reserve of 10 %
- No mechanical preload is necessary
- Easy to use

Multiple-cylinder system:
- The nitrogen cylinders are equipped to be connected on their sides with G1/8 male stud couplings.
- The connection for two screw-on threads is at 90° and at 45° for four screw-on threads.
- The nitrogen cylinders are filled through a connected control panel.

Order example: Nitrogen cylinder: **SZ 8063.1**
with D = 50 and a stroke of 25 mm.
Addition **050 x 025 V**
Order number **SZ 8063.1.050 x 025 V**

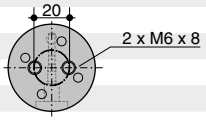
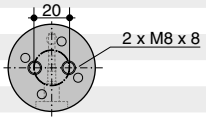
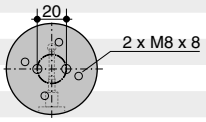
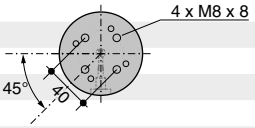
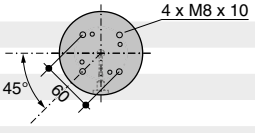


Nitrogen cylinders SZ 8063.1.V

connecting nitrogen cylinders

Add size to order number

Nitrogen cylinder — Order number **SZ 8063.1. ▭ x ▭ V**

D	Stroke	L	N±0.2	d	M	H				Connecting thread	Pos. Connecting thread	Cylinder mounting	
mm	mm	mm	mm	mm	mm	mm	bar	daN	daN				
38	5*	55	60	22	–	–	197	750	1200	G1/8	On the side		**038 x 005 V**
	10	60	70		M6	6							**038 x 010 V**
	15	65	80		M6	6							**038 x 015 V**
	19	69	88		M6	6							**038 x 019 V**
	25	75	100		M6	6							**038 x 025 V**
	32	82	114		M6	6							**038 x 032 V**
	38	88	126		M6	6							**038 x 038 V**
	50	100	150		M6	6							**038 x 050 V**
	63	113	176		M6	6							**038 x 063 V**
	80	130	210		M6	6							**038 x 080 V**
	100	150	250		M6	6							**038 x 100 V**
	125	175	300		M6	6							**038 x 125 V**
50	5*	60	65	30	–	–	212	1500	2400	G1/8	On the side		**050 x 005 V**
	10	65	75		M8	10							**050 x 010 V**
	15	70	85		M8	10							**050 x 015 V**
	19	74	93		M8	10							**050 x 019 V**
	25	80	105		M8	10							**050 x 025 V**
	32	87	119		M8	10							**050 x 032 V**
	38	93	131		M8	10							**050 x 038 V**
	50	105	155		M8	10							**050 x 050 V**
	63	118	181		M8	10							**050 x 063 V**
	80	140	220		M8	10							**050 x 080 V**
	100	155	255		M8	10							**050 x 100 V**
	125	180	305		M8	10							**050 x 125 V**
63	5*	60	65	38	–	–	176	2000	3200	G1/8	On the side		**063 x 005 V**
	10	65	75		M8	10							**063 x 010 V**
	15	70	85		M8	10							**063 x 015 V**
	19	74	93		M8	10							**063 x 019 V**
	25	80	105		M8	10							**063 x 025 V**
	32	87	119		M8	10							**063 x 032 V**
	38	93	131		M8	10							**063 x 038 V**
	50	105	155		M8	10							**063 x 050 V**
	63	118	181		M8	10							**063 x 063 V**
	80	140	220		M8	10							**063 x 080 V**
	100	155	255		M8	10							**063 x 100 V**
	125	180	305		M8	10							**063 x 125 V**
75	5*	65	70	45	–	–	189	3000	4800	G1/8	On the side		**075 x 005 V**
	10	70	80		M8	10							**075 x 010 V**
	15	75	90		M8	10							**075 x 015 V**
	19	79	98		M8	10							**075 x 019 V**
	25	85	110		M8	10							**075 x 025 V**
	32	92	124		M8	10							**075 x 032 V**
	38	98	136		M8	10							**075 x 038 V**
	50	110	160		M8	10							**075 x 050 V**
	63	123	186		M8	10							**075 x 063 V**
	80	145	225		M8	10							**075 x 080 V**
	100	165	265		M8	10							**075 x 100 V**
	125	190	315		M8	10							**075 x 125 V**
95	5*	75	80	55	–	–	210	5000	8000	G1/8	On the side		**095 x 005 V**
	10	80	90		M8	10							**095 x 010 V**
	15	85	100		M8	10							**095 x 015 V**
	19	89	108		M8	10							**095 x 019 V**
	25	95	120		M8	10							**095 x 025 V**
	32	102	134		M8	10							**095 x 032 V**
	38	107	145		M8	10							**095 x 038 V**
	50	120	170		M8	10							**095 x 050 V**
	63	133	196		M8	10							**095 x 063 V**
	80	150	230		M8	10							**095 x 080 V**
	100	170	270		M8	10							**095 x 100 V**
	125	195	320		M8	10							**095 x 125 V**

* Piston rod without thread

If the nitrogen cylinders are to be operated autonomously, it must be specified that they are to be delivered in filled condition. Otherwise, nitrogen cylinders with a "V" in the order code will be delivered unfilled.

Nitrogen cylinders SZ 8063.1.VB

connecting nitrogen cylinders, with integrated burst protection

Explanation
STEINEL nitrogen cylinders **SZ 8063.1.VB** can be filled with standard nitrogen. Nitrogen N_2 is a neutral, non-hazardous gas.

Special features:
- The nitrogen cylinders will be delivered unfilled without a valve
- With integrated burst protection
- Maximum force in the smallest of spaces
- Easy to assemble
- No spring breakage
- Recommended stroke reserve of 10 %
- No mechanical preload is necessary
- Easy to use

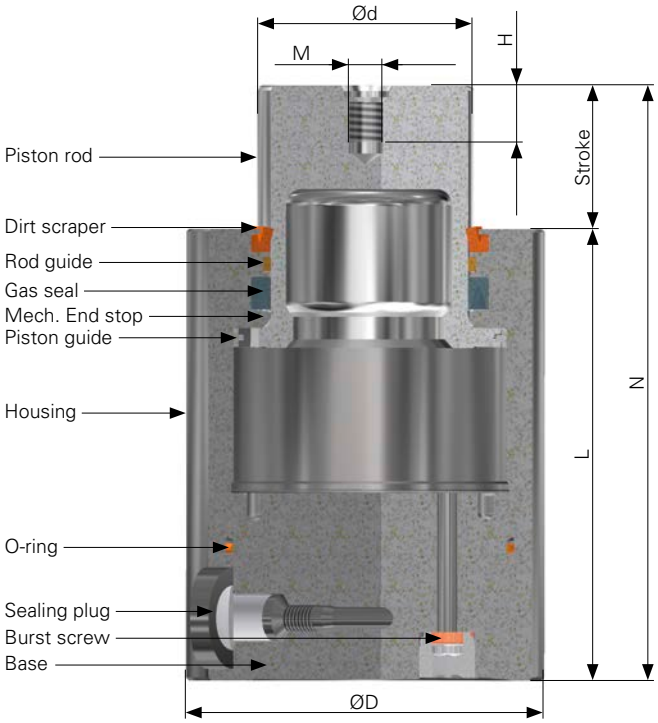
Multiple-cylinder system:
- The nitrogen cylinders are equipped to be connected on their sides with G1/8 male stud couplings.
- The connection for two screw-on threads is at 90° and at 45° for four screw-on threads.
- The nitrogen cylinders are filled through a connected control panel.

Advantages:
- By using a burst screw, the nitrogen cylinder is protected from overpressure damage
- Prevents consequential damage to nitrogen cylinder and tool
- After replacement of the burst screw, a nitrogen cylinder can be filled and used again
- Integrated part

Information for users:
- If the burst pressure is surpassed, forced ventilation occurs and the working pressure is released.
- Following breakage, burst screws are unusable.
- Burst screws are labelled with the burst pressure, which is legible even following breakage.
- An activated burst screw can be replaced by trained personnel.

Order example: Nitrogen cylinder: **SZ 8063.1**
with D = 50 and a stroke of 25 mm.
Addition: **050 x 025 VB**
Order number: **SZ 8063.1.050 x 025 VB**

You can find further information on burst protection on page 5.150

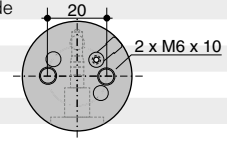
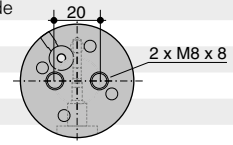
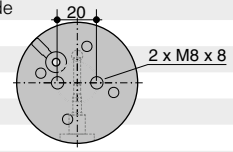
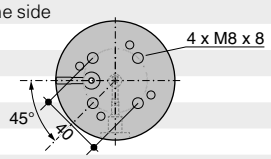
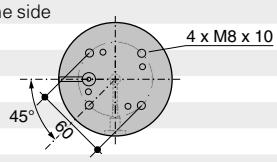


Nitrogen cylinders SZ 8063.1.VB

connecting nitrogen cylinders, with integrated burst protection

Add size to order number

Nitrogen cylinder — Order number **SZ 8063.1. ☐ x ☐ VB**

D	Stroke	L	N±0.2	d	M	H				Burst pres-	Connecting	Pos. Connecting	Cylinder mounting	
mm	mm	mm	mm	mm	mm	mm	bar	daN	daN	sure bar	thread	thread		
38	5*	55	60	22	–	–	197	750	1200	470	G1/8	On the side		038 x 005 VB
	10	60	70		M6	6								038 x 010 VB
	15	65	80		M6	6								038 x 015 VB
	19	69	88		M6	6								038 x 019 VB
	25	75	100		M6	6								038 x 025 VB
	32	82	114		M6	6								038 x 032 VB
	38	88	126		M6	6								038 x 038 VB
	50	100	150		M6	6								038 x 050 VB
	63	113	176		M6	6								038 x 063 VB
	80	130	210		M6	6								038 x 080 VB
	100	150	250		M6	6								038 x 100 VB
	125	175	300		M6	6								038 x 125 VB
50	5*	60	65	30	–	–	212	1500	2400	500	G1/8	On the side		050 x 005 VB
	10	65	75		M8	10								050 x 010 VB
	15	70	85		M8	10								050 x 015 VB
	19	74	93		M8	10								050 x 019 VB
	25	80	105		M8	10								050 x 025 VB
	32	87	119		M8	10								050 x 032 VB
	38	93	131		M8	10								050 x 038 VB
	50	105	155		M8	10								050 x 050 VB
	63	118	181		M8	10								050 x 063 VB
	80	140	220		M8	10								050 x 080 VB
	100	155	255		M8	10								050 x 100 VB
	125	180	305		M8	10								050 x 125 VB
63	5*	60	65	38	–	–	176	2000	3200	430	G1/8	On the side		063 x 005 VB
	10	65	75		M8	10								063 x 010 VB
	15	70	85		M8	10								063 x 015 VB
	19	74	93		M8	10								063 x 019 VB
	25	80	105		M8	10								063 x 025 VB
	32	87	119		M8	10								063 x 032 VB
	38	93	131		M8	10								063 x 038 VB
	50	105	155		M8	10								063 x 050 VB
	63	118	181		M8	10								063 x 063 VB
	80	140	220		M8	10								063 x 080 VB
	100	155	255		M8	10								063 x 100 VB
	125	180	305		M8	10								063 x 125 VB
75	5*	65	70	45	–	–	189	3000	4800	450	G1/8	On the side		075 x 005 VB
	10	70	80		M8	10								075 x 010 VB
	15	75	90		M8	10								075 x 015 VB
	19	79	98		M8	10								075 x 019 VB
	25	85	110		M8	10								075 x 025 VB
	32	92	124		M8	10								075 x 032 VB
	38	98	136		M8	10								075 x 038 VB
	50	110	160		M8	10								075 x 050 VB
	63	123	186		M8	10								075 x 063 VB
	80	145	225		M8	10								075 x 080 VB
	100	165	265		M8	10								075 x 100 VB
	125	190	315		M8	10								075 x 125 VB
95	5*	75	80	55	–	–	210	5000	8000	500	G1/8	On the side		095 x 005 VB
	10	80	90		M8	10								095 x 010 VB
	15	85	100		M8	10								095 x 015 VB
	19	89	108		M8	10								095 x 019 VB
	25	95	120		M8	10								095 x 025 VB
	32	102	134		M8	10								095 x 032 VB
	38	107	145		M8	10								095 x 038 VB
	50	120	170		M8	10								095 x 050 VB
	63	133	196		M8	10								095 x 063 VB
	80	150	230		M8	10								095 x 080 VB
	100	170	270		M8	10								095 x 100 VB
	125	195	320		M8	10								095 x 125 VB

* Piston rod without thread

If the nitrogen cylinders are to be operated autonomously, it must be specified that they are to be delivered in filled condition. Otherwise, nitrogen cylinders with "VB" in the order code will be delivered unfilled.

Nitrogen cylinders SZ 8063.1.VZ

connecting nitrogen cylinders, two connections, with integrated burst protection

Explanation:
STEINEL nitrogen cylinders **SZ 8063.1.VZ** can be filled with standard nitrogen. Nitrogen N_2 is a neutral, non-hazardous gas.

Special features:
- The nitrogen cylinders will be delivered unfilled without a valve
- With integrated burst protection
- Maximum force in the smallest of spaces
- Easy to assemble
- No spring breakage
- Recommended stroke reserve of 10 %
- No mechanical preload is necessary
- Easy to use

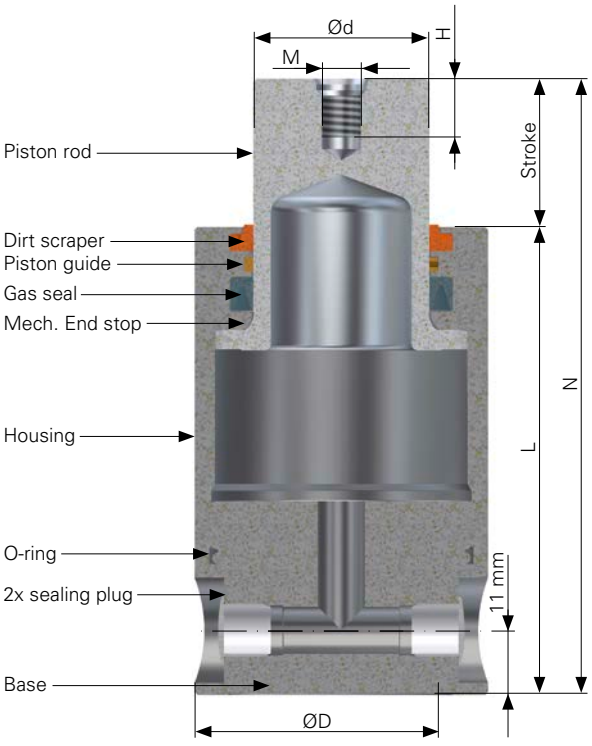
Multiple-cylinder system:
- The nitrogen cylinders are equipped to be connected on their sides with G1/8 male stud couplings.
- The connection for two screw-on threads is at 90° and at 45° for four screw-on threads.
- The nitrogen cylinders are filled through a connected control panel.

Advantages:
- By using a burst screw, the nitrogen cylinder is protected from overpressure damage
- Prevents consequential damage to nitrogen cylinder and tool
- After replacement of the burst screw, a nitrogen cylinder can be filled and used again
- Integrated part

Information for users:
- If the burst pressure is surpassed, forced ventilation occurs and the working pressure is released.
- Following breakage, burst screws are unusable.
- Burst screws are labelled with the burst pressure, which is legible even following breakage.
- An activated burst screw can be replaced by trained personnel.

Order example: Nitrogen cylinder **SZ 8063.1**
with D = 50 and a stroke of 25 mm.
Addition: **050 x 025 VZ**
Order number: **SZ 8063.1.050 x 025 VZ**

You can find further information on burst protection on page 5.150

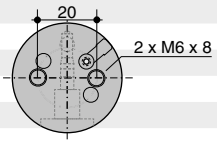
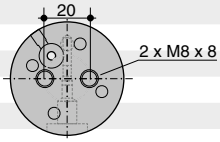
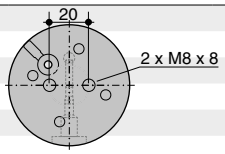
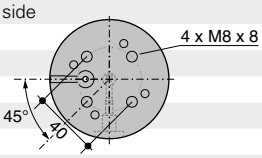
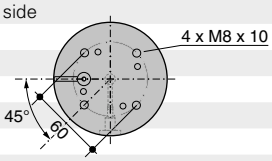


Nitrogen cylinders SZ 8063.1.VZ

connecting nitrogen cylinders, two connections, with integrated burst protection

Add size to order number

Nitrogen cylinder — Order number **SZ 8063.1. ☐ x ☐ VZ**

D	Stroke	L	N±0.2	d	M	H				Burst pressure	Connecting thread	Pos. 2x connecting thread	Cylinder mounting	
mm	mm	mm	mm	mm	mm	mm	bar	daN	daN	bar				
38	5*	55	60	22	–	–	197	750	1200	470	G1/8	On the side		038 x 005 VZ
	10	60	70		M6	6								038 x 010 VZ
	15	65	80		M6	6								038 x 015 VZ
	19	69	88		M6	6								038 x 019 VZ
	25	75	100		M6	6								038 x 025 VZ
	32	82	114		M6	6								038 x 032 VZ
	38	88	126		M6	6								038 x 038 VZ
	50	100	150		M6	6								038 x 050 VZ
	63	113	176		M6	6								038 x 063 VZ
	80	130	210		M6	6								038 x 080 VZ
	100	150	250		M6	6								038 x 100 VZ
	125	175	300		M6	6								038 x 125 VZ
50	5*	60	65	30	–	–	212	1500	2400	500	G1/8	On the side		050 x 005 VZ
	10	65	75		M8	10								050 x 010 VZ
	15	70	85		M8	10								050 x 015 VZ
	19	74	93		M8	10								050 x 019 VZ
	25	80	105		M8	10								050 x 025 VZ
	32	87	119		M8	10								050 x 032 VZ
	38	93	131		M8	10								050 x 038 VZ
	50	105	155		M8	10								050 x 050 VZ
	63	118	181		M8	10								050 x 063 VZ
	80	140	220		M8	10								050 x 080 VZ
	100	155	255		M8	10								050 x 100 VZ
	125	180	305		M8	10								050 x 125 VZ
63	5*	60	65	38	–	–	176	2000	3200	430	G1/8	On the side		063 x 005 VZ
	10	65	75		M8	10								063 x 010 VZ
	15	70	85		M8	10								063 x 015 VZ
	19	74	93		M8	10								063 x 019 VZ
	25	80	105		M8	10								063 x 025 VZ
	32	87	119		M8	10								063 x 032 VZ
	38	93	131		M8	10								063 x 038 VZ
	50	105	155		M8	10								063 x 050 VZ
	63	118	181		M8	10								063 x 063 VZ
	80	140	220		M8	10								063 x 080 VZ
	100	155	255		M8	10								063 x 100 VZ
	125	180	305		M8	10								063 x 125 VZ
75	5*	65	70	45	–	–	189	3000	4800	450	G1/8	On the side		075 x 005 VZ
	10	70	80		M8	10								075 x 010 VZ
	15	75	90		M8	10								075 x 015 VZ
	19	79	98		M8	10								075 x 019 VZ
	25	85	110		M8	10								075 x 025 VZ
	32	92	124		M8	10								075 x 032 VZ
	38	98	136		M8	10								075 x 038 VZ
	50	110	160		M8	10								075 x 050 VZ
	63	123	186		M8	10								075 x 063 VZ
	80	140	215		M8	10								075 x 080 VZ
	100	165	265		M8	10								075 x 100 VZ
	125	190	315		M8	10								075 x 125 VZ
95	5*	75	80	55	–	–	210	5000	8000	500	G1/8	On the side		095 x 005 VZ
	10	80	90		M8	10								095 x 010 VZ
	15	85	100		M8	10								095 x 015 VZ
	19	89	108		M8	10								095 x 019 VZ
	25	95	120		M8	10								095 x 025 VZ
	32	102	134		M8	10								095 x 032 VZ
	38	107	145		M8	10								095 x 038 VZ
	50	120	170		M8	10								095 x 050 VZ
	63	133	196		M8	10								095 x 063 VZ
	80	150	230		M8	10								095 x 080 VZ
	100	170	270		M8	10								095 x 100 VZ
	125	195	320		M8	10								095 x 125 VZ

* Piston rod without thread

Nitrogen cylinders are not filled.

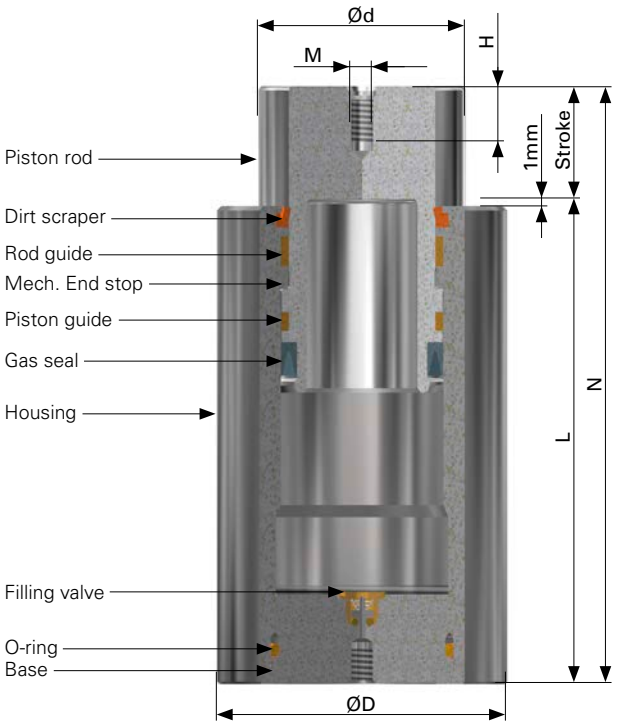
Nitrogen cylinders SZ 8060.2

Explanation:
STEINEL nitrogen cylinders **SZ 8060.2** are filled with standard nitrogen.
Nitrogen N_2 is a neutral, non-hazardous gas.

Special features:
- Each nitrogen cylinder forms a functional, closed unit **(autonomous nitrogen cylinder)**
- Maximum force in the smallest of spaces
- Easy to assemble
- No spring breakage
- Recommended stroke reserve of 10 %
- No mechanical preload is necessary
- Easy to use

Note:
Nitrogen cylinders with diameters starting at 38 mm that were specifically designed for being used in a multiple-cylinder system are listed in the section Nitrogen cylinders V, VB and VZ.

Order example: Nitrogen cylinder **SZ 8060.2**
with a D = 50 and a stroke of 25 mm
Addition **050 x 025**
Order number **SZ 8060.2.050 x 025**

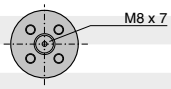
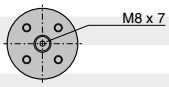
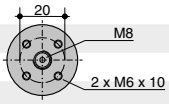
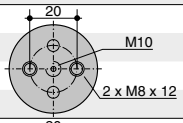
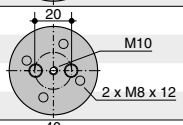
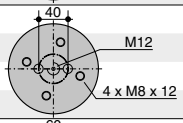
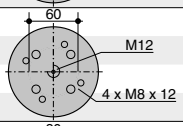
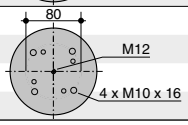


Nitrogen cylinders SZ 8060.2

STEINEL®

Add size to order number

Nitrogen cylinder — Order number **SZ 8060.2.** ☐ x ☐

D	Stroke	L	N	d	M	H				
mm	mm	mm	mm	mm	mm	mm	bar	daN	daN	Cylinder mounting	
25	10	65	75	14	M8	12	157	400	730		**025 x 010**
	15	75	90								**025 x 015**
	25	95	120								**025 x 025**
	50	145	195								**025 x 050**
32	10	65	75	18	M8	12	155	700	1230		**032 x 010**
	15	75	90								**032 x 015**
	25	95	120								**032 x 025**
	50	145	195								**032 x 050**
38	10	65	75	22	M8	12	162	1000	1710		**038 x 010**
	15	75	90								**038 x 015**
	25	95	120								**038 x 025**
	50	145	195								**038 x 050**
50	10	70	80	35	M8	12	159	2000	3400		**050 x 010**
	15	80	95								**050 x 015**
	25	100	125								**050 x 025**
	50	150	200								**050 x 050**
63	10	75	85	45	M8	12	153	3000	4800		**063 x 010**
	15	85	100								**063 x 015**
	25	105	130								**063 x 025**
	50	155	205								**063 x 050**
75	10	75	85	55	M8	12	142	4000	6400		**075 x 010**
	15	85	100								**075 x 015**
	25	105	130								**075 x 025**
	50	155	205								**075 x 050**
95	10	80	90	65	M8	12	158	7000	11200		**095 x 010**
	15	90	105								**095 x 015**
	25	110	135								**095 x 025**
	50	160	210								**095 x 050**
120	10	90	100	85	M8	12	141	10000	16000		**120 x 010**
	15	100	115								**120 x 015**
	25	120	145								**120 x 025**
	50	170	220								**120 x 050**

Nitrogen cylinders SZ 8060.2.B

with integrated burst protection

Explanation:
STEINEL nitrogen cylinders **SZ 8060.2.B** are filled with standard nitrogen.
Nitrogen N_2 is a neutral, non-hazardous gas.

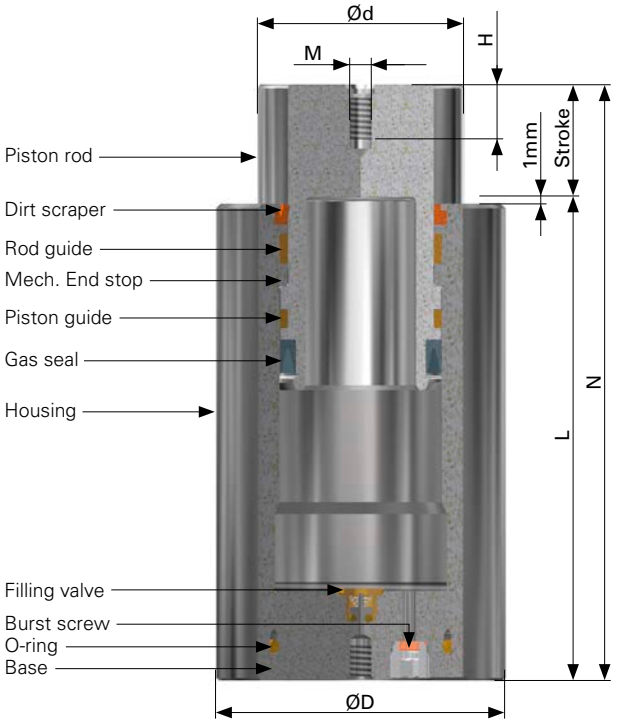
Special features:
- Integrated burst protection
- Each nitrogen cylinder forms a functional, closed unit **(autonomous nitrogen cylinder)**
- Maximum force in the smallest of spaces
- Easy to assemble
- No spring breakage
- Recommended stroke reserve of 10 %
- No mechanical preload is necessary
- Easy to use

Advantages:
- By using a burst screw, the nitrogen cylinder is protected from overpressure damage
- Prevents consequential damage to nitrogen cylinder and tool
- After replacement of the burst screw, a nitrogen cylinder can be filled and used again
- Integrated part

Information for users:
- If the burst pressure is surpassed, forced ventilation occurs and the working pressure is released
- Following breakage, burst screws are unusable
- Burst screws are labelled with the burst pressure, which is legible even following breakage
- An activated burst screw can be replaced by trained personnel

Order example: Nitrogen cylinder **SZ 8060.2**
with a D = 50 and a stroke of 25 mm
Addition **050 x 025 B**
Order number **SZ 8060.2.050 x 025 B**

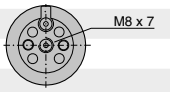
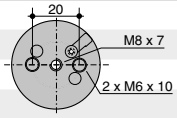
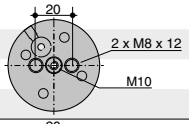
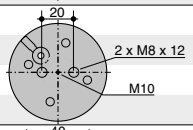
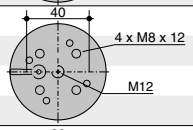
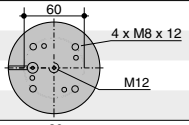
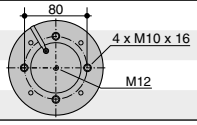
You can find further information on burst protection on page 5.150



Nitrogen cylinders SZ 8060.2.B

with integrated burst protection

Add size to order number

Nitrogen cylinder											Order number SZ 8060.2. ☐ x ☐ B
D	Stroke	L	N	d	M	H				Burst pressure	
mm	mm	mm	mm	mm	mm	mm	bar	daN	daN	bar	Cylinder mounting
32	10	65	75	18	M8	12	155	700	1230	450	 032 x 010 B
	15	75	90								032 x 015 B
	25	95	120								032 x 025 B
	50	145	195								032 x 050 B
38	10	65	75	22	M8	12	162	1000	1710	450	 038 x 010 B
	15	75	90								038 x 015 B
	25	95	120								038 x 025 B
	50	145	195								038 x 050 B
50	10	70	80	35	M8	12	159	2000	3400	400	 050 x 010 B
	15	80	95								050 x 015 B
	25	100	125								050 x 025 B
	50	150	200								050 x 050 B
63	10	75	85	45	M8	12	153	3000	4800	400	 063 x 010 B
	15	85	100								063 x 015 B
	25	105	130								063 x 025 B
	50	155	205								063 x 050 B
75	10	75	85	55	M8	12	142	4000	6400	380	 075 x 010 B
	15	85	100								075 x 015 B
	25	105	130								075 x 025 B
	50	155	205								075 x 050 B
95	10	80	90	65	M8	12	158	7000	11200	450	 095 x 010 B
	15	90	105								095 x 015 B
	25	110	135								095 x 025 B
	50	160	210								095 x 050 B
120	10	90	100	85	M8	12	141	10000	16000	380	 120 x 010 B
	15	100	115								120 x 015 B
	25	120	145								120 x 025 B
	50	170	220								120 x 050 B

Nitrogen cylinders SZ 8060.2.PD

composite plate, direct version

Explanation:
STEINEL nitrogen cylinders **SZ 8060.2.PD** can be filled with standard nitrogen. Nitrogen N_2 is a neutral, non-hazardous gas.

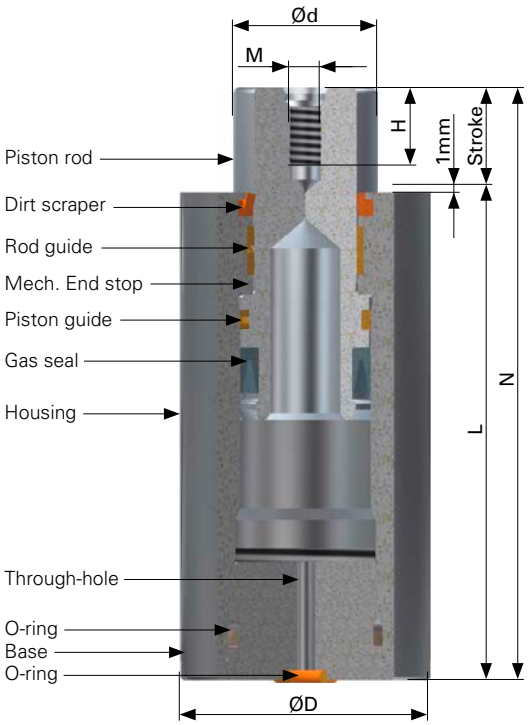
Special features:

- The nitrogen cylinders will be delivered unfilled without a valve
- There is a depression in the middle of the base with an inlaid O-ring
- Maximum force in the smallest of spaces
- Easy to assemble
- No spring breakage
- Recommended stroke reserve of 10 %
- No mechanical preload is necessary
- Easy to use

Multiple-cylinder system:

- The nitrogen cylinders are screwed on through the composite panel by means of the base mounting threads
- The nitrogen cylinders are filled by means of a control panel that is connected to the composite panel
- The plate must be flat and have a minimum surface roughness of Rz 6.3 in the area where the nitrogen cylinder will be placed on it
- 1 % of the volume of composite plate nitrogen cylinders must be filled with oil.

Order example: Nitrogen cylinder **SZ 8060.2**
with a D = 50 and a stroke of 25 mm
Addition **050 x 025 PD**
Order number **SZ 8060.2.050 x 025 PD**

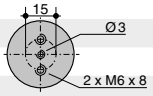
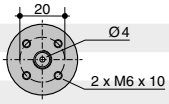
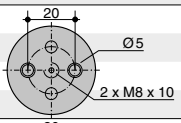
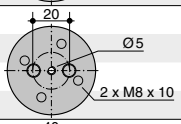
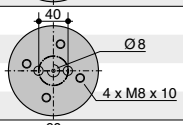
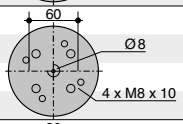
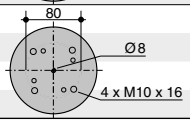


Nitrogen cylinders SZ 8060.2.PD

composite plate, direct version

Add size to order number

Nitrogen cylinder — Order number **SZ 8060.2. ☐ x ☐ PD**

D	Stroke	L	N	d	M	H					
											
mm	mm	mm	mm	mm	mm	mm	bar	daN	daN	Cylinder mounting	
32	10	65	75	18	M8	12	155	700	1230		**032 x 010 PD**
	15	75	90								**032 x 015 PD**
	25	95	120								**032 x 025 PD**
	50	145	195								**032 x 050 PD**
38	10	65	75	22	M8	12	162	1000	1710		**038 x 010 PD**
	15	75	90								**038 x 015 PD**
	25	95	120								**038 x 025 PD**
	50	145	195								**038 x 050 PD**
50	10	70	80	35	M8	12	159	2000	3400		**050 x 010 PD**
	15	80	95								**050 x 015 PD**
	25	100	125								**050 x 025 PD**
	50	150	200								**050 x 050 PD**
63	10	75	85	45	M8	12	153	3000	4800		**063 x 010 PD**
	15	85	100								**063 x 015 PD**
	25	105	130								**063 x 025 PD**
	50	155	205								**063 x 050 PD**
75	10	75	85	55	M8	12	142	4000	6400		**075 x 010 PD**
	15	85	100								**075 x 015 PD**
	25	105	130								**075 x 025 PD**
	50	155	205								**075 x 050 PD**
95	10	80	90	65	M8	12	158	7000	11200		**095 x 010 PD**
	15	90	105								**095 x 015 PD**
	25	110	135								**095 x 025 PD**
	50	160	210								**095 x 050 PD**
120	10	90	100	85	M8	12	141	10000	16000		**120 x 010 PD**
	15	100	115								**120 x 015 PD**
	25	120	145								**120 x 025 PD**
	50	170	220								**120 x 050 PD**

Nitrogen cylinders SZ 8060.2.V

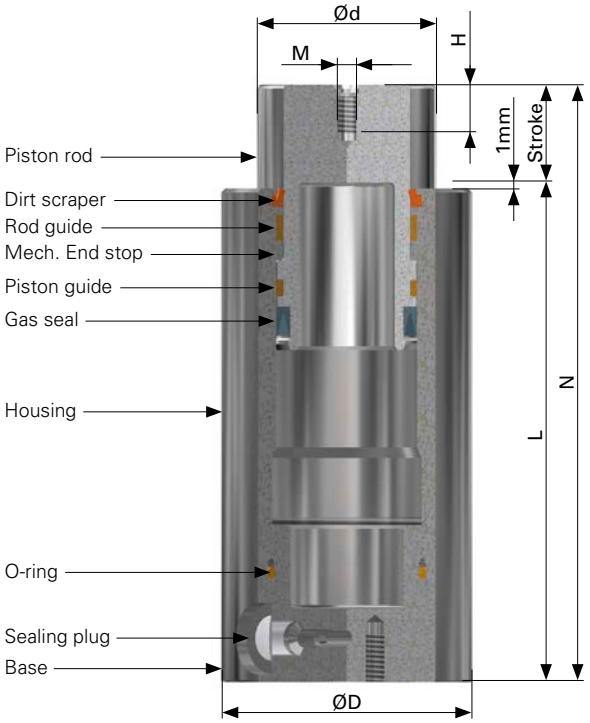
connecting nitrogen cylinders

Explanation:
STEINEL nitrogen cylinders **SZ 8060.2.V** can be filled with standard nitrogen.
Nitrogen N_2 is a neutral, non-hazardous gas.

Special features:
- The nitrogen cylinders will be delivered unfilled without a valve
- Maximum force in the smallest of spaces
- Easy to assemble
- No spring breakage
- Recommended stroke reserve of 10 %
- No mechanical preload is necessary
- Easy to use

Multiple-cylinder system:
- The nitrogen cylinders are equipped to be connected on their sides with G1/8 male stud couplings
- The connection for two screw-on threads is at 90° and at 45° for four screw-on threads
- The nitrogen cylinders are filled through a connected control panel

Order example: Nitrogen cylinder **SZ 8060.2**
with a D = 50 and a stroke of 25 mm
Addition **050 x 025 V**
Order number **SZ 8060.2.050 x 025 V**

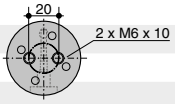
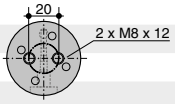
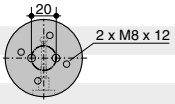
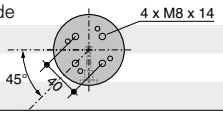
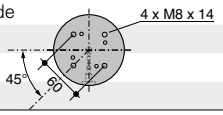
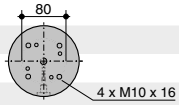


Nitrogen cylinders SZ 8060.2.V

connecting nitrogen cylinders

Add size to order number

Nitrogen cylinder — Order number **SZ 8060.2.** ☐ x ☐ **V**

D	Stroke	L	N	d	M	H					Pos.		
										Closing	Closing		
mm	mm	mm	mm	mm	mm	mm	bar	daN	daN	thread	thread	Cylinder mounting	
38	10	85	95	22	M8	12	162	1000	1710	G1/8	On the side		**038 x 010 V**
	15	95	110										**038 x 015 V**
	25	115	140										**038 x 025 V**
	50	165	215										**038 x 050 V**
50	10	90	100	35	M8	12	159	2000	3400	G1/8	On the side		**050 x 010 V**
	15	100	115										**050 x 015 V**
	25	120	145										**050 x 025 V**
	50	170	220										**050 x 050 V**
63	10	95	105	45	M8	12	153	3000	4800	G1/8	On the side		**063 x 010 V**
	15	105	120										**063 x 015 V**
	25	125	150										**063 x 025 V**
	50	175	225										**063 x 050 V**
75	10	95	105	55	M8	12	142	4000	6400	G1/8	On the side		**075 x 010 V**
	15	105	120										**075 x 015 V**
	25	125	150										**075 x 025 V**
	50	175	225										**075 x 050 V**
95	10	100	110	65	M8	12	158	7000	11200	G1/8	On the side		**095 x 010 V**
	15	110	125										**095 x 015 V**
	25	130	155										**095 x 025 V**
	50	180	230										**095 x 050 V**
120	10	110	120	85	M8	12	141	10000	16000	G1/8	On the side		**120 x 010 V**
	15	120	135										**120 x 015 V**
	25	140	165										**120 x 025 V**
	50	190	240										**120 x 050 V**

If the nitrogen cylinders are to be operated autonomously, it must be specified that they are to be delivered in filled condition. Otherwise, nitrogen cylinders with a "V" in the order code will be delivered unfilled.

Nitrogen cylinders SZ 8060.2.VB

connecting nitrogen cylinders with integrated burst protection

Explanation:
STEINEL nitrogen cylinders **SZ 8060.2.VB** can be filled with standard nitrogen. Nitrogen N_2 is a neutral, non-hazardous gas.

Special features:
- The nitrogen cylinders will be delivered unfilled without a valve
- With integrated burst protection
- Maximum force in the smallest of spaces
- Easy to assemble
- No spring breakage
- Recommended stroke reserve of 10 %
- No mechanical preload is necessary
- Easy to use

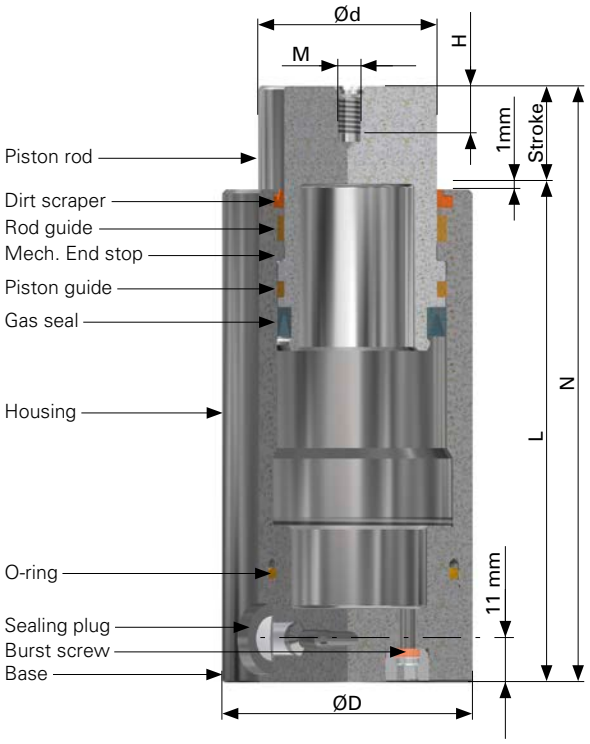
Multiple-cylinder system:
- The nitrogen cylinders are equipped to be connected on their sides with G1/8 male stud couplings
- The connection for two screw-on threads is at 90° and at 45° for four screw-on threads
- The nitrogen cylinders are filled through a connected control panel

Advantages:
- By using a burst screw, the nitrogen cylinder is protected from overpressure damage
- Prevents consequential damage to nitrogen cylinder and tool
- After replacement of the burst screw, a nitrogen cylinder can be filled and used again
- Integrated part

Information for users:
- If the burst pressure is surpassed, forced ventilation occurs and the working pressure is released
- Following breakage, burst screws are unusable
- Burst screws are labelled with the burst pressure, which is legible even following breakage
- An activated burst screw can be replaced by trained personnel

Order example: Nitrogen cylinder **SZ 8060.2**
with a D = 50 and a stroke of 25 mm
Addition **050 x 025 VB**
Order number **SZ 8060.2.050 x 025 VB**

You can find further information on burst protection on page 5.150

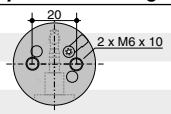
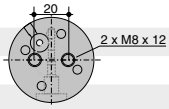
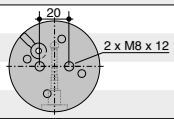
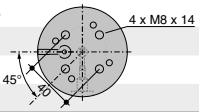
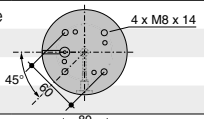
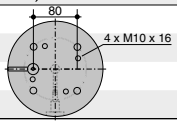


Nitrogen cylinders SZ 8060.2.VB

connecting nitrogen cylinders with integrated burst protection

Add size to order number

Nitrogen cylinder — Order number **SZ 8060.2.** ☐ x ☐ **VB**

D	Stroke	L	N	d	M	H				Burst pressure bar	Connecting thread	Pos. connecting thread	Cylinder mounting	
mm	mm	mm	mm	mm	mm	mm	bar	daN	daN					
38	10	85	95	22	M8	12	162	1000	1710	450	G1/8	On the side		**038 x 010 VB**
	15	95	110											**038 x 015 VB**
	25	115	140											**038 x 025 VB**
	50	165	215											**038 x 050 VB**
50	10	90	100	35	M8	12	159	2000	3400	400	G1/8	On the side		**050 x 010 VB**
	15	100	115											**050 x 015 VB**
	25	120	145											**050 x 025 VB**
	50	170	220											**050 x 050 VB**
63	10	95	105	45	M8	12	153	3000	4800	400	G1/8	On the side		**063 x 010 VB**
	15	105	120											**063 x 015 VB**
	25	125	150											**063 x 025 VB**
	50	175	225											**063 x 050 VB**
75	10	95	105	55	M8	12	142	4000	6400	380	G1/8	On the side		**075 x 010 VB**
	15	105	120											**075 x 015 VB**
	25	125	150											**075 x 025 VB**
	50	175	225											**075 x 050 VB**
95	10	100	110	65	M8	12	158	7000	11200	450	G1/8	On the side		**095 x 010 VB**
	15	110	125											**095 x 015 VB**
	25	130	155											**095 x 025 VB**
	50	180	230											**095 x 050 VB**
120	10	110	120	85	M8	12	141	10000	16000	380	G1/8	On the side		**120 x 010 VB**
	15	120	135											**120 x 015 VB**
	25	140	165											**120 x 025 VB**
	50	190	240											**120 x 050 VB**

If the nitrogen cylinders are to be operated autonomously, it must be specified that they are to be delivered in filled condition. Otherwise, nitrogen cylinders with "VB" in the order code will be delivered unfilled.

Nitrogen cylinders SZ 8060.2.VZ

connecting nitrogen cylinders, two connections, with integrated burst protection

Explanation:
STEINEL nitrogen cylinders **SZ 8060.2.VZ** can be filled with standard nitrogen. Nitrogen N_2 is a neutral, non-hazardous gas.

Special features:
- The nitrogen cylinders will be delivered unfilled without a valve
- With integrated burst protection
- Maximum force in the smallest of spaces
- Easy to assemble
- No spring breakage
- Recommended stroke reserve of 10 %
- No mechanical preload is necessary
- Easy to use

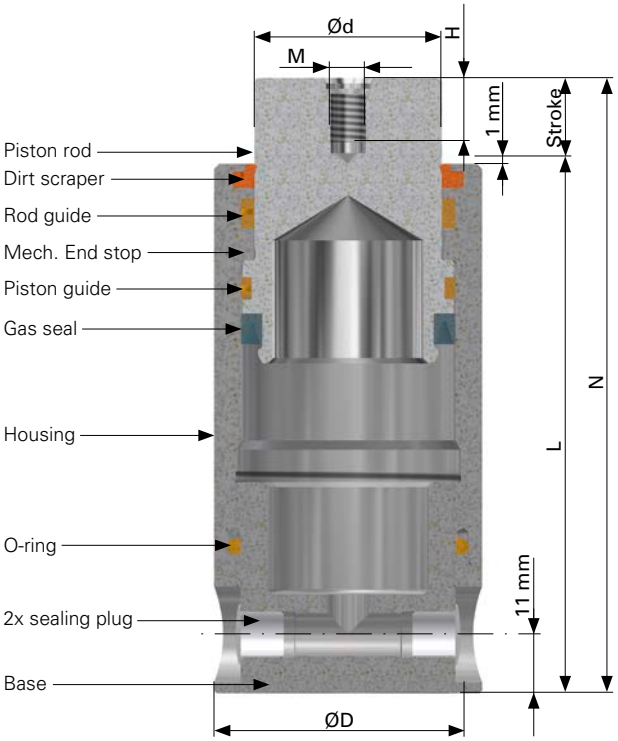
Multiple-cylinder system:
- The nitrogen cylinders are equipped to be connected on their sides with G1/8 male stud couplings
- The connection for two screw-on threads is at 90° and at 45° for four screw-on threads
- The nitrogen cylinders are filled through a connected control panel

Advantages:
- By using a burst screw, the nitrogen cylinder is protected from overpressure damage
- Prevents consequential damage to nitrogen cylinder and tool
- After replacement of the burst screw, a nitrogen cylinder can be filled and used again
- Integrated part

Information for users:
- If the burst pressure is surpassed, forced ventilation occurs and the working pressure is released
- Following breakage, burst screws are unusable
- Burst screws are labelled with the burst pressure, which is legible even following breakage
- An activated burst screw can be replaced by trained personnel

Order example: Nitrogen cylinder **SZ 8060.2**
with a D = 50 and a stroke of 25 mm
Addition **050 x 025 VZ**
Order number **SZ 8060.2.050 x 025 VZ**

You can find further information on burst protection on page 5.150

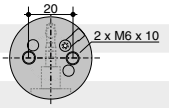
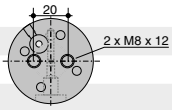
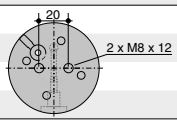
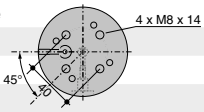
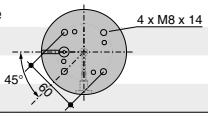
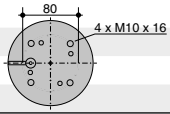


Nitrogen cylinders SZ 8060.2.VZ

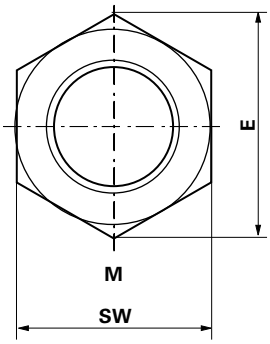
connecting nitrogen cylinders, two connections, with integrated burst protection

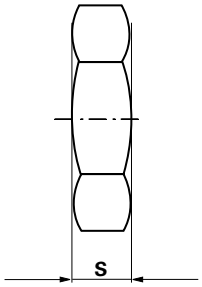
Add size to order number

Nitrogen cylinder — Order number **SZ 8060.2. ☐ x ☐ VZ**

D	Stroke	L	N	d	M	H				Burst pressure	Connecting thread	Pos. connecting thread	Cylinder mounting	
mm	mm	mm	mm	mm	mm	mm	bar	daN	daN	bar				
38	10	85	95	22	M8	8	162	1000	1710	450	G1/8	On the side		**038 x 010 VZ**
	15	95	110											**038 x 015 VZ**
	25	115	140											**038 x 025 VZ**
	50	165	215											**038 x 050 VZ**
50	10	90	100	35	M8	8	159	2000	3400	400	G1/8	On the side		**050 x 010 VZ**
	15	100	115											**050 x 015 VZ**
	25	120	145											**050 x 025 VZ**
	50	170	220											**050 x 050 VZ**
63	10	95	105	45	M8	8	153	3000	4800	400	G1/8	On the side		**063 x 010 VZ**
	15	105	120											**063 x 015 VZ**
	25	125	150											**063 x 025 VZ**
	50	175	225											**063 x 050 VZ**
75	10	95	105	55	M8	8	142	4000	6400	380	G1/8	On the side		**075 x 010 VZ**
	15	105	120											**075 x 015 VZ**
	25	125	150											**075 x 025 VZ**
	50	175	225											**075 x 050 VZ**
95	10	100	110	65	M8	12	158	7000	11200	450	G1/8	On the side		**095 x 010 VZ**
	15	110	125											**095 x 015 VZ**
	25	130	155											**095 x 025 VZ**
	50	180	230											**095 x 050 VZ**
120	10	130	140	85	M8	12	141	10000	16000	380	G1/8	On the side		**120 x 010 VZ**
	15	140	155											**120 x 015 VZ**
	25	160	185											**120 x 025 VZ**
	50	210	260											**120 x 050 VZ**

Nitrogen cylinders will be delivered unfilled.





Lock nut SZ 8055.
for cushioned gas thrust pieces SZ 8150.1.

Order example: Lock nut
SZ 8055
for thread M16
Addition **16**
Order number **SZ 8055.16**

Add size to order number

Lock nut			Order number **SZ 8055.**	☐
M	**E**	**S**	**SW**	
M16 x 1.5	26.75	8	24	**16**
M24 x 1.5	35.72	10	32	**24**

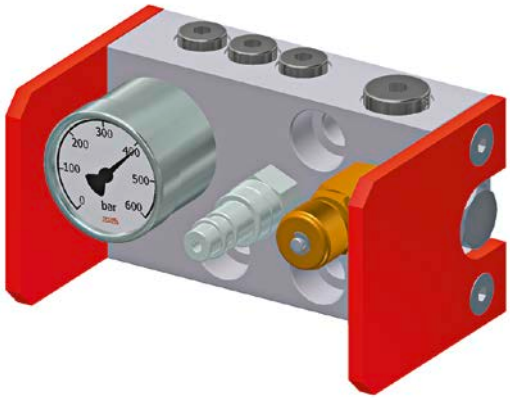
Control panels

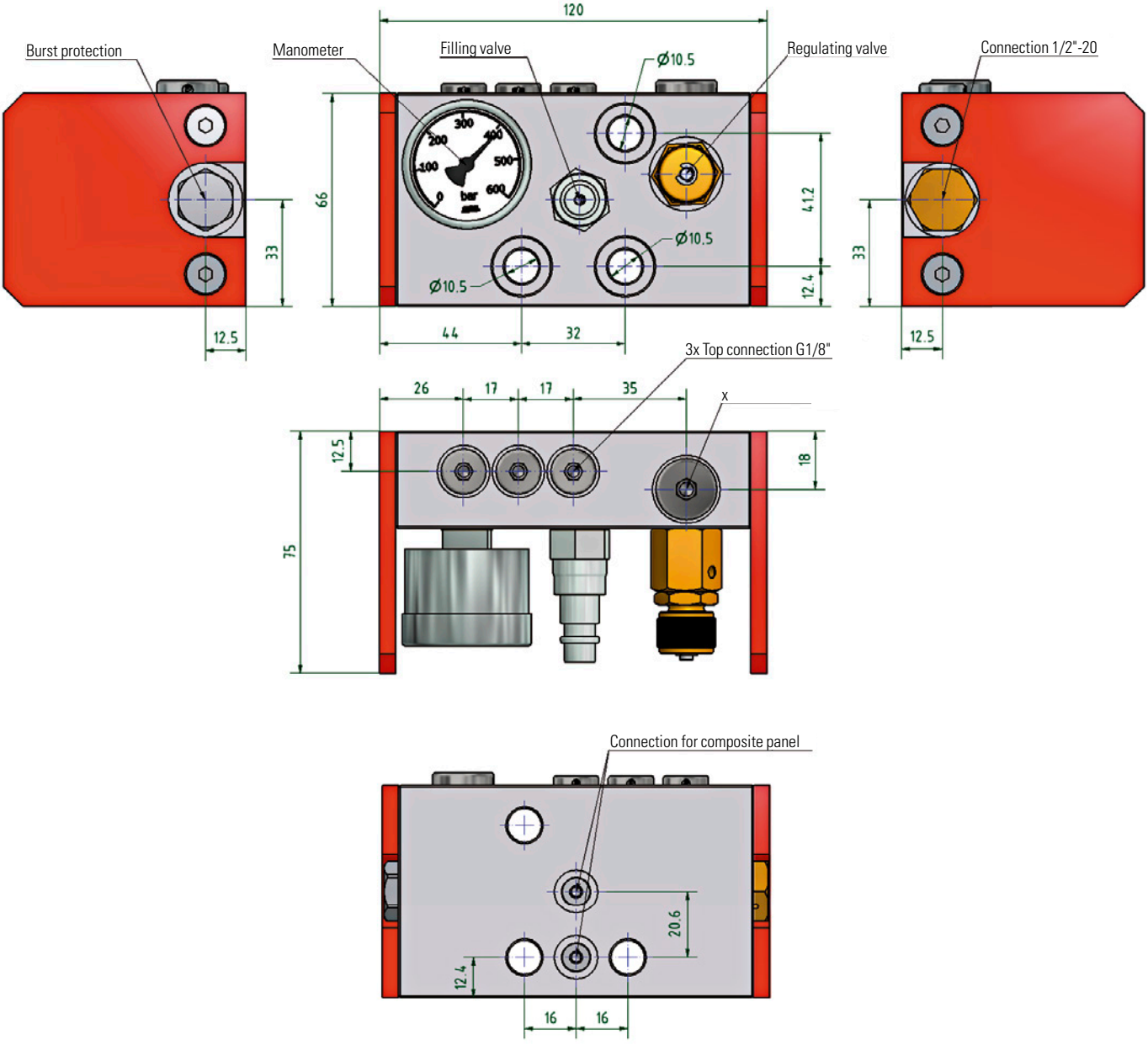
for systems with multiple nitrogen cylinders

Control panel Standard ST 8845-02

Order number: **ST 8845-02**

Working pressures up to 450 bar
3x G 1/8" Connections
1x G1/4" Connection
1x 1/2"-20 Connection
2x prepared connections for composite plate
1x burst protection (spare part ST8844-450)





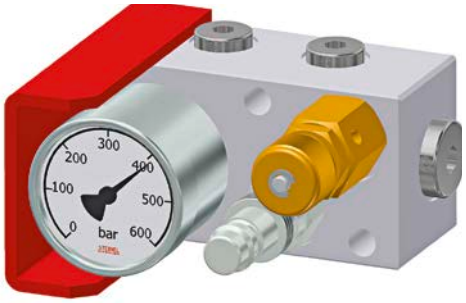
Control panels

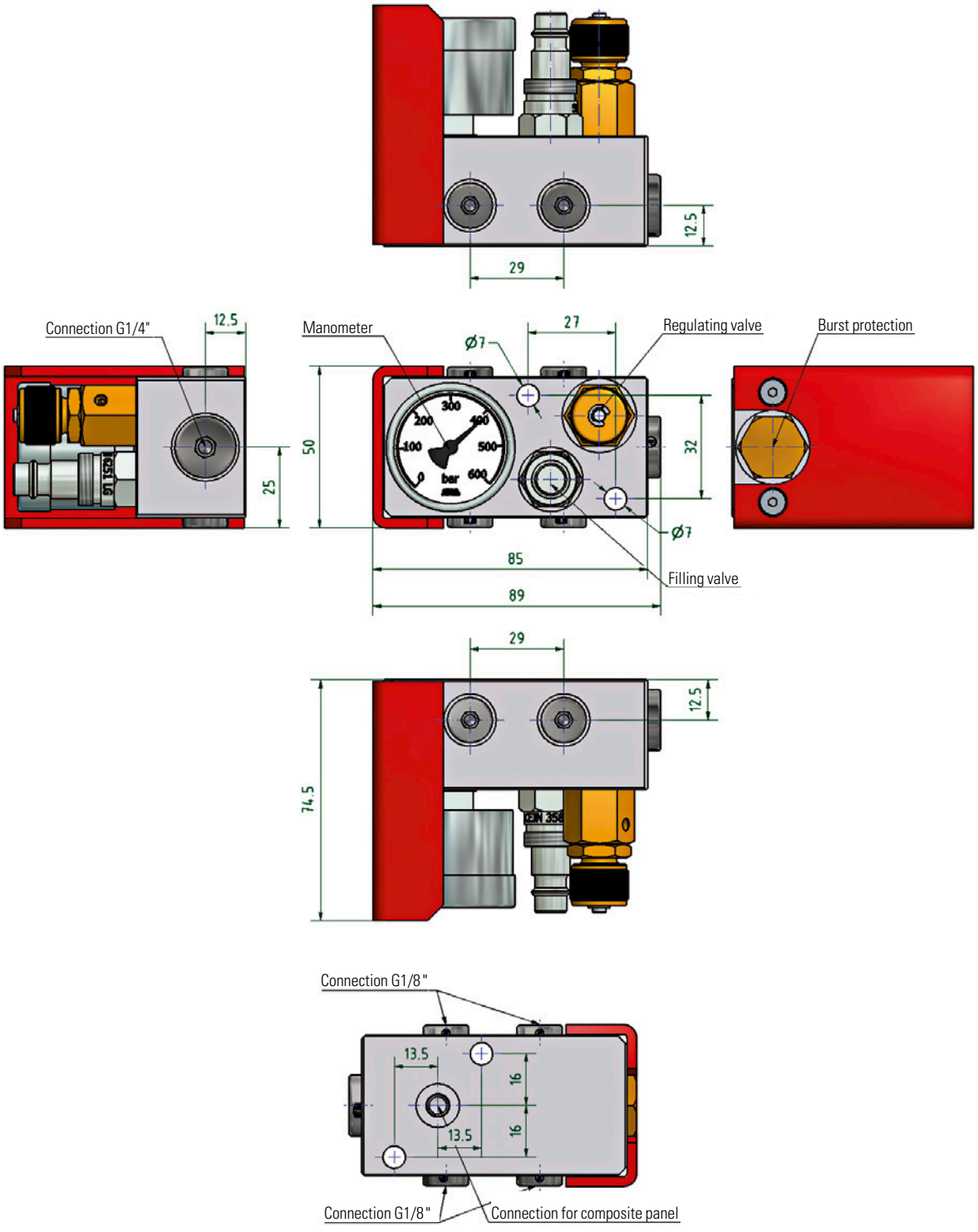
for systems with multiple nitrogen cylinders

Control panel mini ST 8845-99

Order number: **ST 8845-99**

Working pressures up to 450 bar
4x G 1/8" Connections
1x G1/4" Connection
1x Prepared connection for composite plate
1x burst protection (spare part ST8844-450)





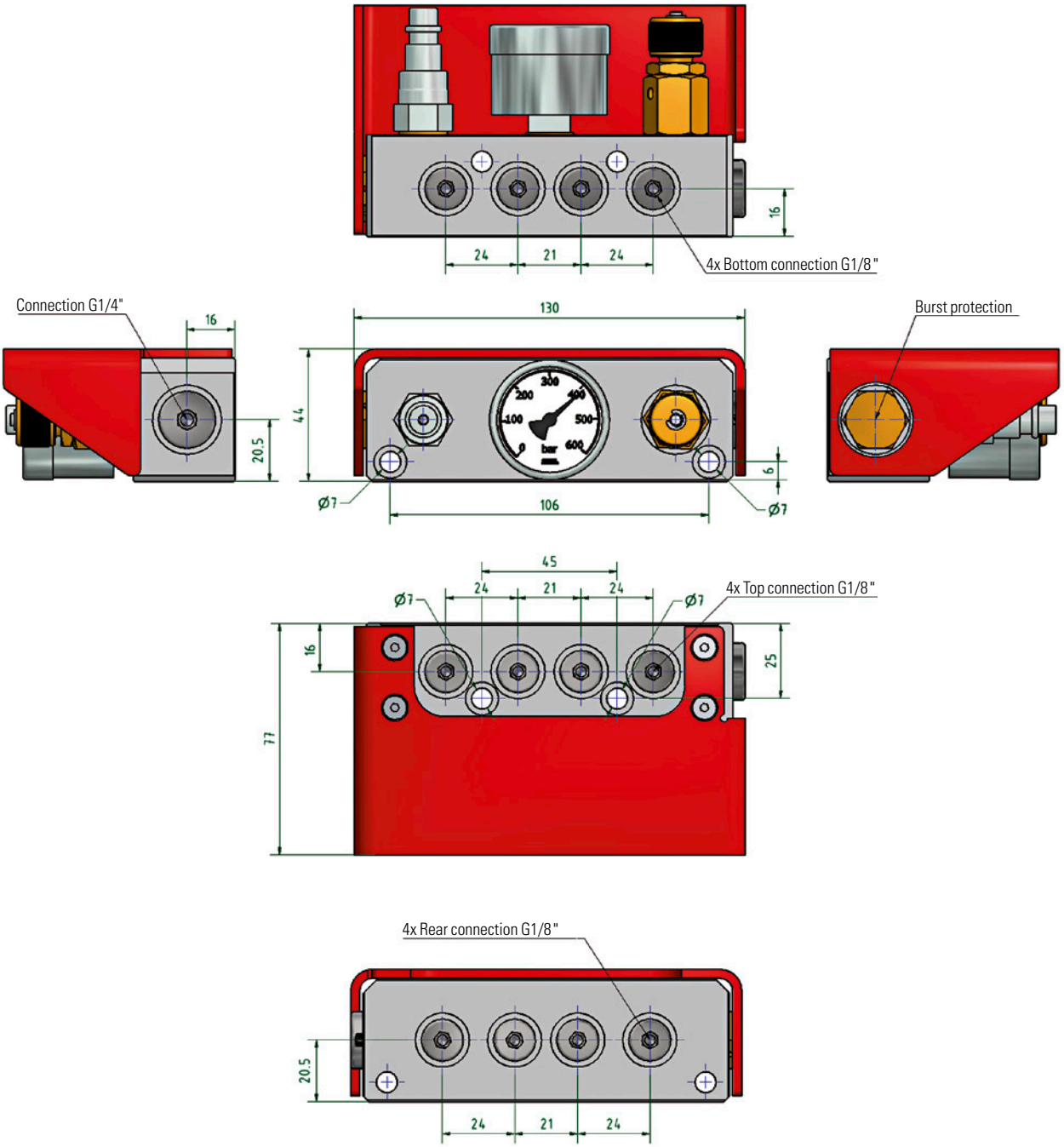
Control panels

for systems with multiple nitrogen cylinders

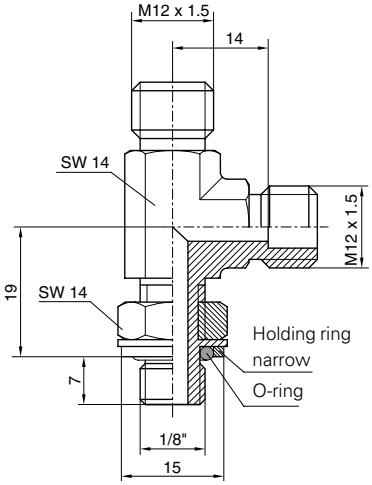
Control panel maxi ST 8845-444

Order number: **ST 8845-444**

Working pressures up to 450 bar
12x G 1/8" Connections
1x G1/4" Connection
1x burst protection (spare part ST8844-450)

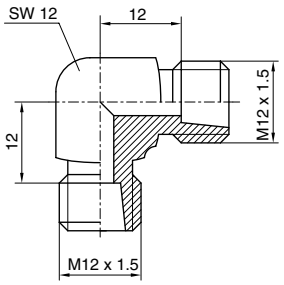


Nitrogen cylinder
tubing systems



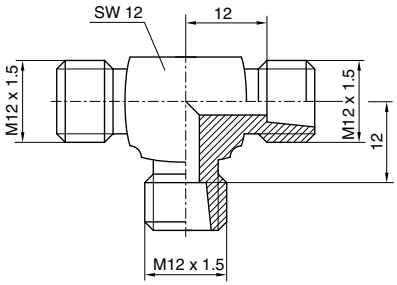
Adjustable L-coupling with lock nut

Order number:
SZ 7017.06



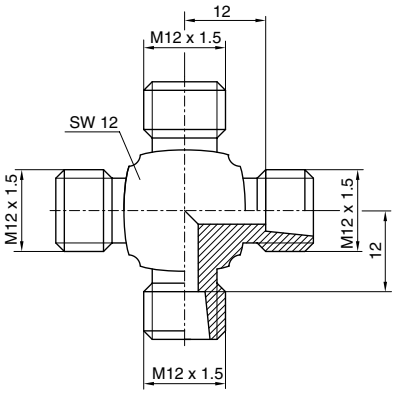
Elbow connection

Order number:
SZ 7021.06



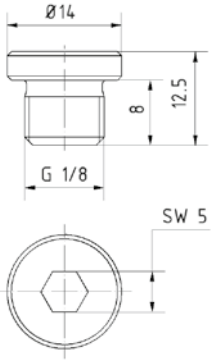
T-coupling

Order number:
SZ 7022.06



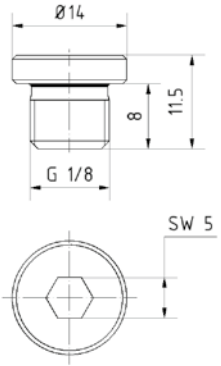
Four-way coupling

Order number:
SZ 7023.06



Sealing plug without seal

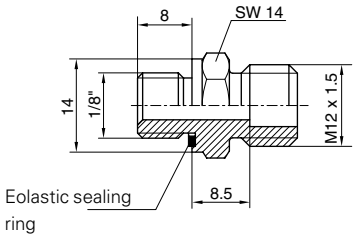
Order number:
K100-000-1531



Sealing plug with seal

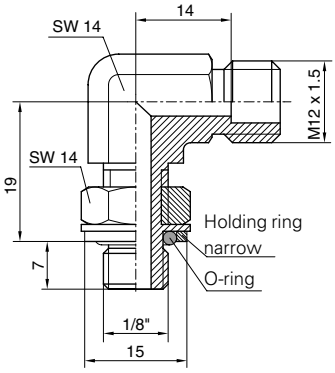
Order number:
K100-000-0030

Nitrogen cylinder
tubing systems



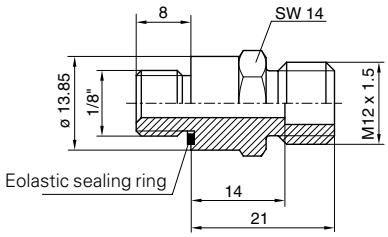
Straight male stud coupling

Order number: **SZ 7013.06**



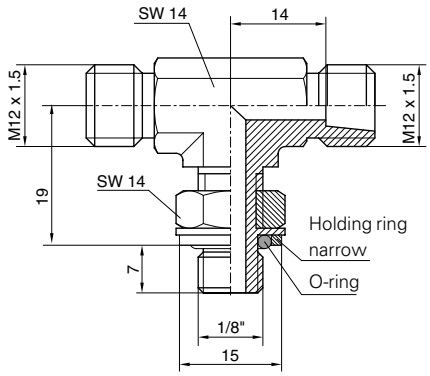
Adjustable elbow connection with lock nut

Order number: **SZ 7014.06**



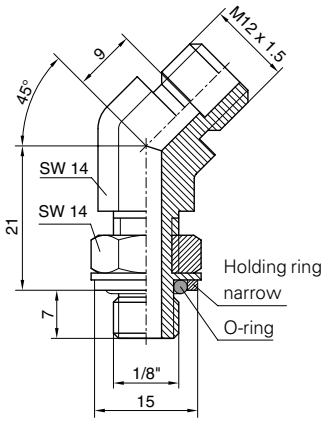
Straight male stud coupling long

Order number: **SZ 7020.06**



Adjustable T-coupling with lock nut

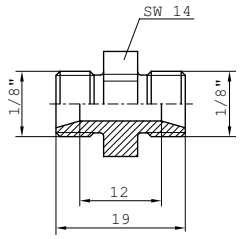
Order number: **SZ 7015.06**



Adjustable 45° Elbow connection with lock nut

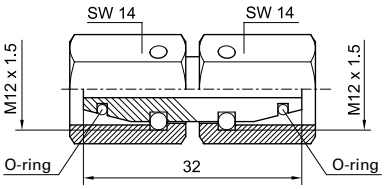
Order number: **SZ 7016.06**

Nitrogen cylinder tubing
special parts



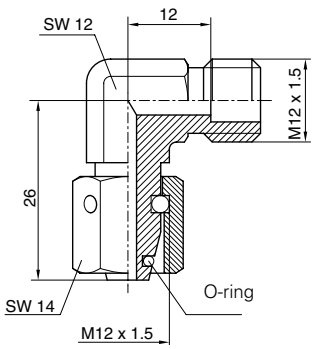
Adapter 1/8"–1/8"

Order number:
SZ 7019.06



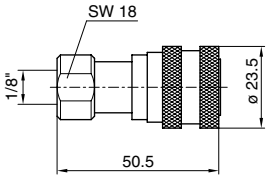
Straight intermediate connection piece with sealing taper

Order number:
SZ 7033.06



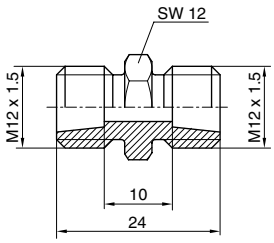
Elbow connection with sealing taper

Order number:
SZ 7034.06



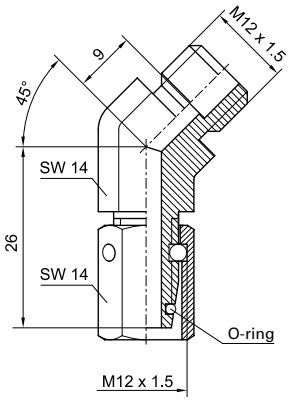
Quick release sleeve

Order number:
SZ 7041.01



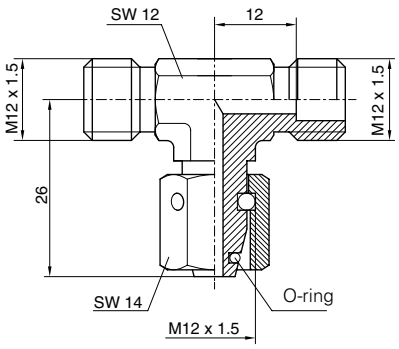
Straight screw connection

Order number:
SZ 7024.06



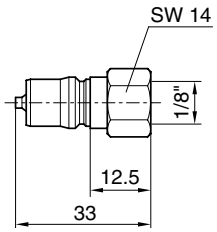
45° elbow connection with sealing taper

Order number:
SZ 7036.06



T-coupling with sealing taper

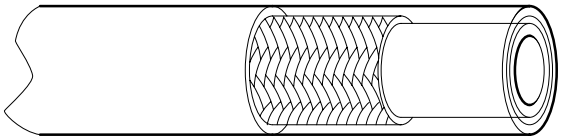
Order number:
SZ 7035.06

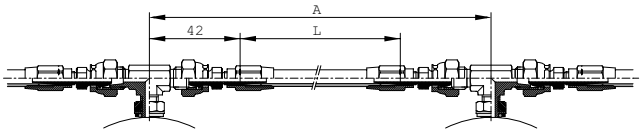


Quick-release plug

Order number:
SZ 7042.01

Nitrogen cylinder
tubing systems





Tube for self assembly

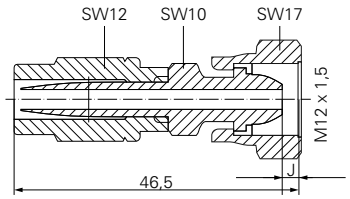
Order number: **SZ 7010.08**

Please indicate the tube length in metres when ordering

The mechanical properties of the tube are:
- Operating temperature: -40 °C/-40 °F to 80 °C/176 °F
- Working pressure: max. 380 bar at 80 °C/176 °F
- Minimal curve radius: 40 mm
- Outer diameter: 9.2 mm

Calculating the tube length:
L = (A - 84) x 1.05

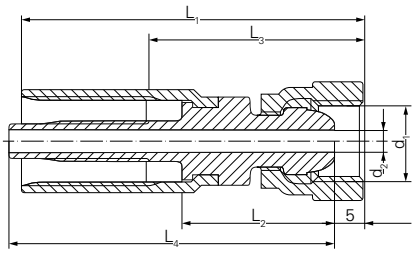
L = Length of the tube without screw connection
A = Distance between the cylinders to be connected by tubes



Screw fitting DN4

Order number: **SZ 7012 S**

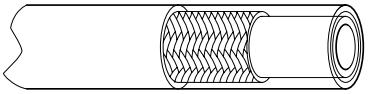
Note:
Consists of **SZ 7011.08**
SZ 7012.08



Press-type fitting DN4 tube

Order number: **SZ 7012 P**

Note:
A tube press fitting is needed for assembly.

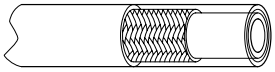


DN3 tube

Order number: **ST8849-3-N**

Note:
A tube press fitting is needed for assembly.

The mechanical properties of the tube are:
- Operating temperature: -20 to +80°C/176 °F
  Working pressure: max. 425 bar at 80°C/176 °F
- Minimal curve radius: 35 mm
- Outer diameter: 6.4 mm

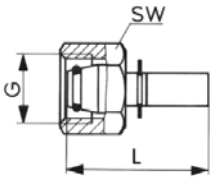


DN2 tube

Order number: **ST8849-2-N**

Note:
A tube press fitting is needed for assembly.

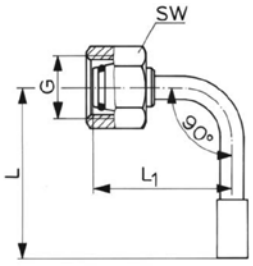
The mechanical properties of the tube are:
- Operating temperature: -40 to +80°C/176 °F
- Working pressure: max. 540 bar at 80°C/176 °F
- Minimal curve radius: 30 mm
- Outer diameter: 5 mm



Press-type fitting DN3 tube

Order number: **ST8849-3-PA**

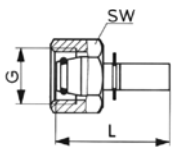
Note:
A tube press fitting is needed for assembly.



Press-type fitting DN3 tube

Order number: **ST8849-3-PA90**

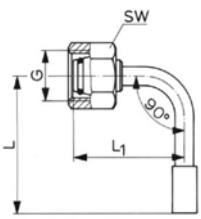
Note:
A tube press fitting is needed for assembly.



Press-type fitting DN2 tube

Order number: **ST8849-2-PA**

Note:
A tube press fitting is needed for assembly.

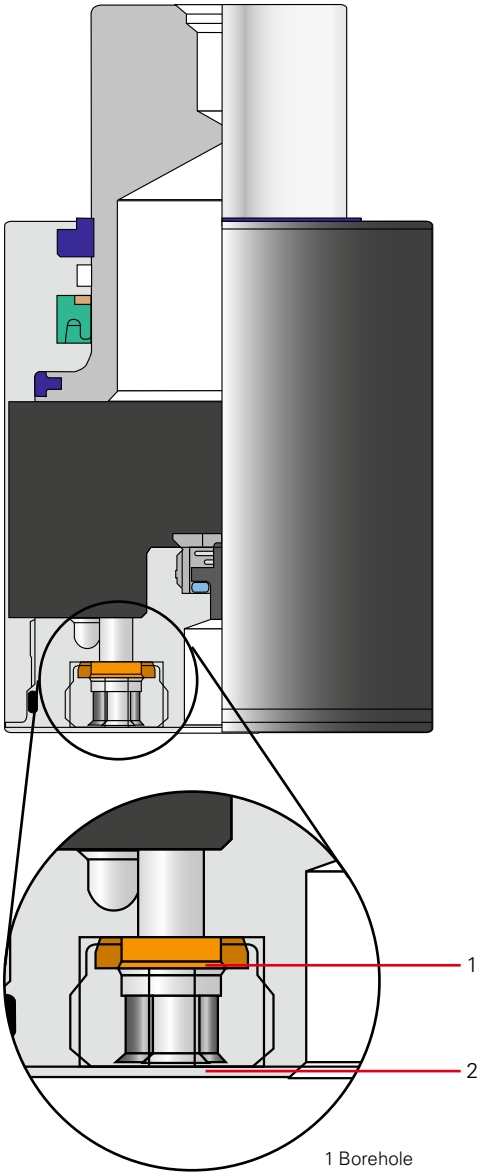


Press-type fitting DN2 tube

Order number: **ST8849-2-PA90**

Note:
A tube press fitting is needed for assembly.

Burst protection for nitrogen cylinders



1 Borehole
2 Burst screw

Explanation:
As of now, all STEINEL nitrogen cylinders are available upon request with a safety system for pressure release. It consists of a curved burst disc, which will burst when the specified pressure is surpassed and make way for an opening used for releasing pressure.

Advantages of the pressure release system:
- By using a burst screw, the nitrogen cylinder is protected from overpressure damage.
- Prevents consequential damage to nitrogen cylinder and tool
- After replacement of the burst screw, a nitrogen cylinder can be filled and used again.
- Integrated part.
- Retrofitting of existing nitrogen cylinders is possible by replacing the base.

Application fields:
- Nitrogen cylinders from outer diameter 32 mm.
- Possible in combination with all V bases.

Information for users:
- If the burst pressure is surpassed, forced ventilation occurs and the working pressure is released.
- Following breakage, burst screws are unusable.
- Burst screws are labelled with the burst pressure, which is legible even following breakage.
- An activated burst disc can be replaced by trained personnel.

Order example: with burst protection
Nitrogen cylinder: SZ 8063.1. with D = 50 and a stroke of 25 mm
Addition: **B**
Order number: SZ 8063.1.050 x 025 **B**

Order example: with multiple-cylinder system + burst protection
Nitrogen cylinder: SZ 8063.1. with D = 50 and a stroke of 25 mm
Addition: **VB**
Order number: SZ 8063.1.050 x 025 **VB**

Burst screws

Order numbers burst screws for nitrogen cylinders Ø 32 mm and Ø 38 mm	
Order number	**Burst pressure/bar**
SZ 708706350	350
SZ 708706380	380
SZ 708706430	430
SZ 708706450	450
SZ 708706470	470
SZ 708706500	500

Order numbers for nitrogen cylinders from Ø 50 mm	
Order number	**Burst pressure/bar**
SZ 708712350	350
SZ 708712380	380
SZ 708712400	400
SZ 708712430	430
SZ 708712450	450
SZ 708712470	470
SZ 708712500	500
SZ 708712600	600

If a replacement is required, only use burst screws with the same pressure!

Assembly tools

Nominal Ø	Assembly tools for **all series**	Additional assembly tool **only for SZ 8065.1**	Additional assembly tool **only SZ 8066.1/ SZ 7066.1/SZ 8080.1/SZ 7080.1**
			
	To assemble/disassemble the screwed-on base	To assemble/disassemble the DS fixture	To assemble/disassemble the DS fixture
Ø 19	SZ 8000WKZ019	SZ 8000WKZ8065DS19	SZ 8000WKZ8066DS19
Ø 25	SZ 8000WKZ025	SZ 8000WKZ8065DS25	SZ 8000WKZ8066DS25
Ø 32	SZ 8000WKZ032	SZ 8000WKZ8065DS32	SZ 8000WKZ8066DS32
Ø 38	SZ 8000WKZ038	SZ 8000WKZ8065DS38	SZ 8000WKZ8066DS38
Ø 50	SZ 8000WKZ050	SZ 8000WKZ8065DS50	SZ 8000WKZ8066DS50
Ø 63	SZ 8000WKZ063	SZ 8000WKZ8065DS63	SZ 8000WKZ8066DS63
Ø 75	SZ 8000WKZ075	SZ 8000WKZ8065DS75	SZ 8000WKZ8066DS75
Ø 95	SZ 8000WKZ095	SZ 8000WKZ8065DS95	SZ 8000WKZ8066DS95
Ø 120	SZ 8000WKZ120	–	–

Nominal Ø	Discharging screw	Charging adapters	U-site rings
			
	To empty the nitrogen cylinder prior to disassembly	Suitable for base bodies SZ8085.4 of the control sets SZ 8085.8 and SZ 8085.9	Spare part for charging adapters
M4	SZ 7046.2	SZ 7045.1	K100-000-0900
M6	SZ 7046.3	SZ 7045.2	K100-000-0910
M8	SZ 7046.4	SZ 7045.7	K100-000-0370
M10	SZ 7046.5	SZ 7045.3	K100-000-0380
M12	SZ 7046.6	SZ 7045.4	K100-000-0390
G1/8"	SZ 7046.7	SZ 7045.5	K100-000-0380

Discontinued product will be replaced by SZ7045.21
Discontinued product will be replaced by SZ7045.22
Discontinued product will be replaced by SZ7045.23
Discontinued product will be replaced by SZ7045.24
Discontinued product will be replaced by SZ7045.25

Repair kits

Nominal Ø	Compatible series SZ 8060.1	SZ 8063.1 SZ 8066.2.019 to SZ 8066.2.095 SZ 7066.2.019 to SZ 7066.2.095 SZ 8080.2.019 to SZ 8080.2.095 SZ 7080.2.019 to SZ 7080.2.095 SZ 8065.2.019 to SZ 8065.2.032	SZ 8065.1	SZ 8066.1 / SZ 8066.2.120 SZ 7066.1. SZ 8080.1. / SZ 8080.2.120 SZ 7080.1 SZ 8065.2.038 to SZ 8065.2.095
				
Ø 19	–	SZ 8000REP002019	SZ 8000REP003019	SZ 8000REP004019
Ø 25	SZ 8000REP001025	SZ 8000REP002025	SZ 8000REP003025	SZ 8000REP004025
Ø 32	SZ 8000REP001032	SZ 8000REP002032	SZ 8000REP003032	SZ 8000REP004032
Ø 38	SZ 8000REP001038	SZ 8000REP002038	SZ 8000REP003038	SZ 8000REP004038
Ø 50	SZ 8000REP001050	SZ 8000REP002050	SZ 8000REP003050	SZ 8000REP004050
Ø 63	SZ 8000REP001063	SZ 8000REP002063	SZ 8000REP003063	SZ 8000REP004063
Ø 75	SZ 8000REP001075	SZ 8000REP002075	SZ 8000REP003075	SZ 8000REP004075
Ø 95	SZ 8000REP001095	SZ 8000REP002095	SZ 8000REP003095	SZ 8000REP004095
Ø 120	SZ 8000REP001120	–	–	SZ 8000REP004120
Consisting of:	Repair instructions Scraper Piston seal Rod guide Piston guide Lock ring O-ring base Screw locking High-performance oil	Repair instructions Scraper Rod seal Rod guide Piston guide Lock ring O-ring base Screw locking High-performance oil	Repair instructions DS fixture complete Rod seal Piston guide O-ring base Screw locking High-performance oil	Repair instructions DS fixture complete Rod seal Piston guide O-ring base Screw locking High-performance oil

Control set SZ 8085.8, SZ 8085.9

Explanation
STEINEL control sets SZ 8085.8 and SZ 8085.9 are used for filling, the variable pressure setting of and for measuring the gas pressure in various nitrogen cylinder systems.

Area of application:
- Nitrogen cylinders
- Tube connected nitrogen cylinders*
- Composite plates*
- Manifold plates*

* As long as the controls are readily accessible, it is possible with these systems to adjust the pressure while they are in operation.

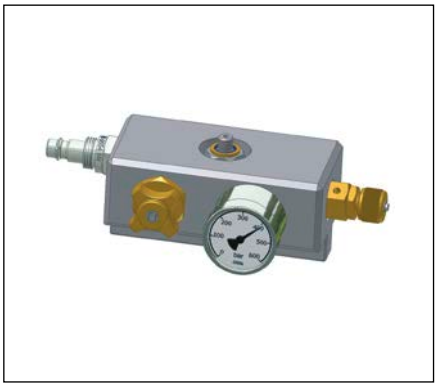
Customer-side requirement
- Nitrogen bottle
- Cylinder pressure regulator (only for SZ 8085.8)

Content:

Adapter

Discharging screws

Charging tubing



Base body

Pressure reducer

Valve key

			SZ 8085.8	SZ 8085.9
Discontinued product **Charging adapter** **SZ 7045.1 = M4**		for SZ 8060.1.025 and SZ 8060.1.032	●	●
Discontinued product will be replaced by SZ7045.21 **Charging adapter** **SZ 7045.2 = M6**		for SZ 7066.1.019 SZ 7066.1.025 SZ 7066.1.032 SZ 8063.1.032 SZ 8065.1.019 SZ 8065.1.025 SZ 8065.1.032 SZ 8066.1.019 SZ 8066.1.025 SZ 8066.1.032 SZ 8150.1	●	●
Discontinued product will be replaced by SZ7045.23 **Charging adapter** **SZ 7045.3 = M10**		for SZ 8063.1.050	●	●
Discontinued product will be replaced by SZ7045.24 **Charging adapter** **SZ 7045.4 = M12**		for SZ 8063.1.063 SZ 8063.1.075 SZ 8063.1.095	●	●
Discontinued product will be replaced by SZ7045.25 **Charging adapter** **SZ 7045.5 = G1/8"**		for SZ 8067 from Ø 45	●	●
Discharging screws **SZ 7046.2 = M4** **SZ 7046.3 = M6** **SZ 7046.4 = M8** **SZ 7046.5 = M10** **SZ 7046.6 = M12** **SZ 7046.7 = G1/8"**			●	●
Charging tubing **SZ 8085.4**		Suitable for pressure reducer SZ 8085.6 on base body SZ 8085.5 and control panel SZ 8098.	●	●
Base body **SZ 8085.5**		Without charging adapter suitable for SZ 7080.1 all SZ 8080.1 all SZ 7066.1.038 and bigger SZ 8060.1.038 and bigger SZ 8065.1.038 and bigger SZ 8066.1.038 and bigger SZ 8063.1.019 SZ 8063.1.025 SZ 8063.1.038	●	●
Pressure reducer **SZ 8085.6**		Connecting piece for 300 bar nitrogen bottles (assembled), connecting piece for 200 bar (included as loose piece)	—	●
Valve key **K100-000-0300**			—	●
Transition adapter **SZ 7045.9**		Transition adapter for current connecting nipples (SZ 7042.01)	—	●
Transition adapter **SZ 7045.10**		For the transition from the current control set tube to the STEINEL Normalien system.	—	—

All parts can also be ordered individually.

Force measuring device SZ 8079

Force measuring device for nitrogen cylinders up to 6300 daN

Version:
Basic frame with hydraulic pump and various adapters.

Application:
All nitrogen cylinders up to a diameter of 120 mm and an initial force of up to 6300 daN can be checked with this force measuring device.

There are 3 different load cells (SZ 8078) that are interchangeable and, depending on the need, must be ordered separately.
Measuring range 25 – 250 daN (SZ 8078.00250)
Measuring range 100 – 1 000 daN (SZ 8078.01000)
Measuring range 630 – 6 300 daN (SZ 8078.06300)

A load cell from 1600–16000 daN is available for nitrogen cylinders with higher pressures. This load cell can be used on a press to check the large nitrogen cylinders.

Attention:
Order load cell separately.

Testing process:
Install the load cell with the required measuring range.
Insert the distance bolt for height adjustment.
Position the nitrogen cylinder in the corresponding fixture.
Perform the force test by pumping up the hydraulic cylinder.
Following the conclusion of the force test, open the valve at the hydraulic cylinder and push the cylinder downwards. Remove the nitrogen cylinder.

Order number **SZ 8079**

Load cell SZ 8078

Load cell

Interchangeable load cell for force measuring device SZ 8079

Measuring range:
25 – 250 daN
100 – 1000 daN
630 – 6300 daN
1600 – 16000 daN (do not use with force measuring device)

Order example: Load cell **SZ 8078**
Measuring range = 100–1000 daN
Addition **01000**
Order number **SZ 8078.01000**

Load cell	Order number **SZ 8078.**☐
measuring range in daN	Add size to order number
25 – 250	**00250**
100 – 1000	**01000**
630 – 6300	**06300**
1600 – 16000	**16000**

Nitrogen systems

- ☐ Nitrogen cylinder
- ☐ Composite tube system
- ☐ Composite plate system
- ☐ Manifold plate
- ☐ Die cushion

Contact data

Date

Company

Street, house number

Postcode, town/city

Contact person

E-mail

Phone

Fax

Specifications

Application

Site of operation (warm or cold forming)

Entire force (N)

Stroke distance of the spring (mm)

Number of strokes

Requested minimum life time

Max. plate size (LxW in mm)

Plate thickness (mm), max. installation space(LxW in mm)

Number of cylinders

Cylinder version

Number of stress application point

Interfering contours

☐ Press bed ☐ Press ram ☐ Miscellaneous

Fixing

Additional information

Schedule

Data (stp, sized pdf)

Remarks

g.roggatz@steinel-normalien.de

Legal notices regarding the site of operation: Pressure equipment with a volume larger than one litre is to be used exclusively in the EU and specifically listed countries. The export to third countries is only permitted with the authorisation of STEINEL Normalien AG.

FAX +49 7720 6928-970