

EJ16 on VDI 3004
EJ24 on VDI 3004

EJECTOR



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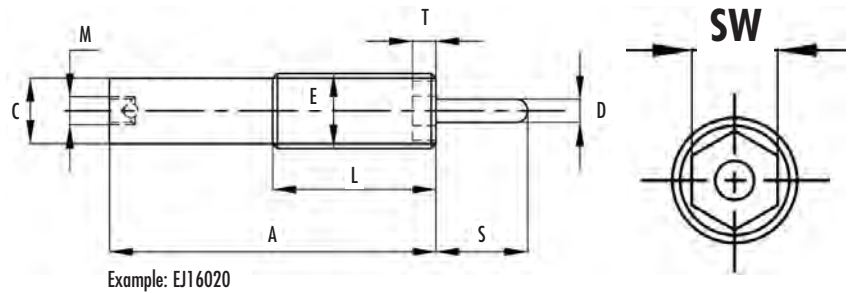
EJECTOR

- EJ16/EJ24
- Spring force in relation to filling pressure
- Other important notes

1.1
2.1
3.1



EJECTOR EJ16 AND EJ24



Example: EJ16020

Type	Hub S	A	Ø C	Ø D	E	L	M	SW	T	spring force (N) by filling pressure				
										20 bar		140 bar		
											from	to	from	to
EJ16010	10	70	13.5	6	M 16x1.5	35	M6	10	5	47		56		442
EJ16020	20	80									61	477		
EJ16030	30	90									64	499		
EJ16040	40	100									66	514		
EJ16050	50	110									68	525		
EJ16060	60	120									69	534		
EJ16070	70	130									70	540		
EJ16080	80	140									71	546		
EJ16090	90	150									72	550		
EJ16100	100	160									72	554		
											20 bar		170 bar	
EJ24010	10	70	21.5	8	M24x1.5	35	M6	17	5	89		101		930
EJ24020	20	80									106	971		
EJ24030	30	90									108	993		
EJ24040	40	100									110	1007		
EJ24050	50	110									111	1016		
EJ24060	60	120									112	1023		
EJ24070	70	130									112	1028		
EJ24080	80	140									113	1032		
EJ24090	90	150									113	1035		
EJ24100	100	160									114	1038		

Maintenance

Dayton EJ ejectors are designed for permanent maintenance-free operation. It is recommended that the piston rod be lightly oiled before use.

Attention

Gas springs are only permitted to be filled with standard commercial nitrogen.

Signs

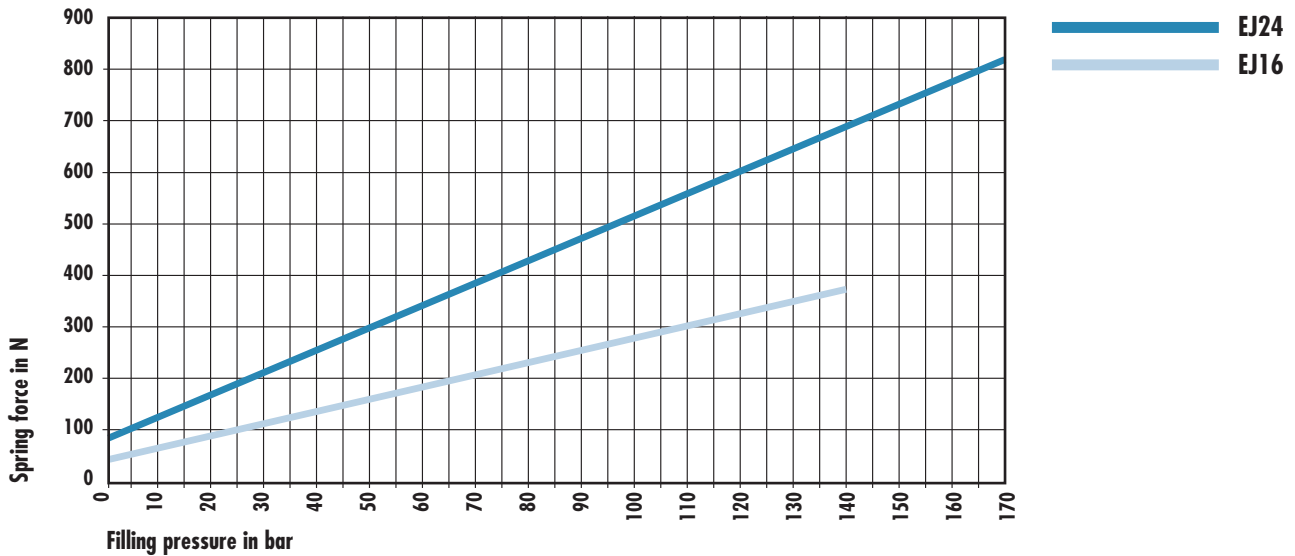
The appropriate notices should be attached so as to be easily visible when gas springs are installed.

Description

The Dayton gas spring with an external thread is ideal for use as an ejector and is a replacement for standard commercial screw-type compression-spring ejectors.

The Dayton EJ ejectors are not divided up into various spring-force ranges with color markings as they can be filled individually to meet the required force. In terms of construction, all of the springs have the same design and can consequently be used for filling pressures between a minimum of 20 bar and a maximum of 140 bar for EJ16 and 170 bar for EJ24. Subsequent pressure adjustment is possible using the valve in the base of the spring. The Dayton EJ ejectors are supplied pressurized to 140 bar (EJ16) and 170 bar (EJ24) unless otherwise specified.

SPRING FORCE IN RELATION TO FILLING PRESSURE

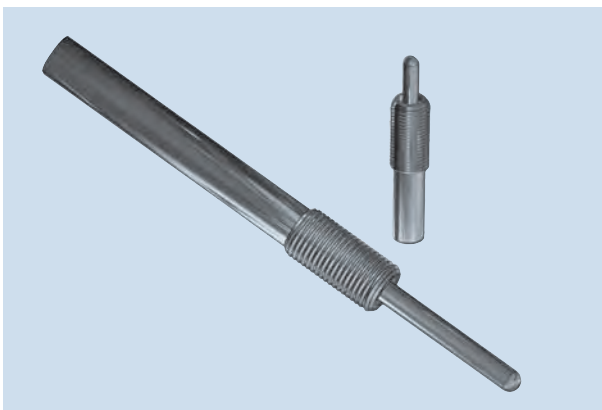


Installation instructions

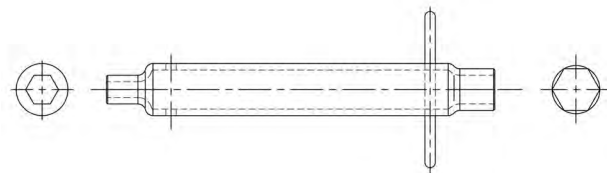
- The Dayton EJ ejector must not be used in an application where the piston is released freely from the compressed position. Uncontrolled and sudden release of the piston will cause internal damage of the spring and result in loss of pressure. Uncontrolled and sudden tension release will lead to a loss of pressure in the ejector.
- The contacting surface to the piston rod must be at 90° to the ejector and be of sufficient hardness.
- The piston rod should not be subjected to lateral forces.
- Protect the piston rod against mechanical damage and contact with liquids.
- It is not recommended that the full stroke of the piston rod be used. A buffer of 10% of the nominal length or 5mm which ever is greatest, is recommended.
- System safety is not guaranteed if the stated maximum pressure of the spring is exceeded.
- Exceeding the maximum permissible working temperature of 75°C will reduce the service life of the Dayton EJ.
- The piston rod must not be guided or fixed.
- Removal tool "EJ10000" is required for fitting and removing the EJ ejector.

Filling and venting the Dayton EJ ejector

- Emptied ejectors must be first filled with a low pressure to ensure the piston rod is fully forward before filling to the required pressure. The spring must be held in a vertical position whilst filling. It should be ensured that the spring is held in a vertical position when it is filled.
- All of the ejectors are to be checked for damage before being filled. Old and worn Ejectors must be fully de-gassed before being disposed of.



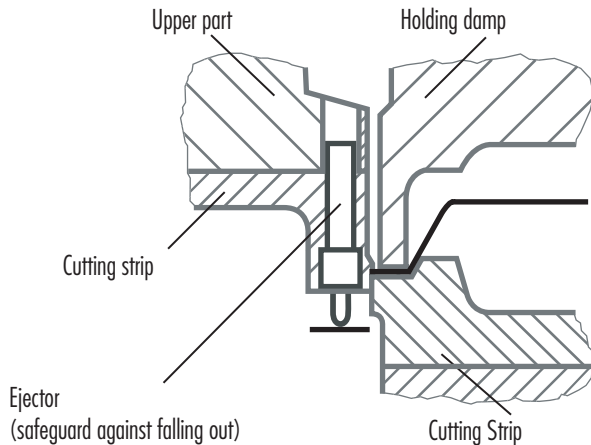
Removal Tool Order No.: EJ10000



OTHER IMPORTANT NOTES

- Work such as grinding or welding should be avoided in the proximity of gas springs.
- Any modifications to the piston rod or casing are prohibited.
- Processing or even sawing off the piston rod to reduce the stroke is prohibited.
- The maximum operating speed should not exceed 0.8m/s to avoid overheating and wear on the sealing system.
- 3D CAD Data is available on our DAYTools™-CD in several different formats.

Installation Example



Filling medium:	Nitrogen
Max. operating temperature:	75°
Max. speed:	0.8m/s
Max. stroke length	
up to 30mm:	180 strokes/Min.
from 40 to 70mm:	120 strokes/Min.
from 80 to 100mm:	80 strokes/Min.

Spring size:	M16x1.5	M24x1.5
Min. filling pressure:	20 bar	20 bar
Max. filling pressure:	140 bar	170 bar

Filling Adapter Order No.: 12000



Exhaust Thorn Order No.: 11000

