

# ZEE Injector

## Junction Mounting, Positive Displacement Injector, Oil



### General

ZEE Injectors deliver a fixed pre-measured quantity of lubricant at the outlet connection during each discharge cycle. ZEE Injectors are available in five discharge rates. System distribution connections utilizing Bijur Delimon standard junctions and 4mm (5/32") secondary tubing can be used with these units.



### Application

ZEE Injectors can only be used in cyclic operation oil systems and feed in one direction only. These injectors can be mounted in any direction.

### System Requirements

The lubricating pump in a PDI oil system must build up line pressure to 145 psi (10 bar) minimum to actuate injector discharge, maximum operating pressure is 435 psi (30 bar). A pressure relief device must be used in the system to permit pressure to drop quickly to approximately 11 psi (0.8 bar) between lubrication cycles to allow injectors to fully reset, ready for next lubrication cycle.

### Technical Data

Oil Viscosity	30-2000 cSt at operating temperature
Mounting	Junction
Discharge	Preset (non-adjustable) in five various rates
Maximum Operating Pressure	435 psi (30 bar)
Minimum Operating Pressure	145 psi (10 bar)
Maximum Relieving Pressure	11 psi (0.8 bar)
Maximum Operating Temperature	175°F (80°C)
Leaktight Junction Connection	4.5 Newton-Meter (40 pound inch maximum)
Material	Brass
Inlet	M10X1 male threads
Outlet	4mm (5/32) tubing connection

#### BIJUR DELIMON INTERNATIONAL

(919) 465 4448 LOCAL  
(800) 631 0168 TOLL-FREE  
(919) 465 0516 FAX

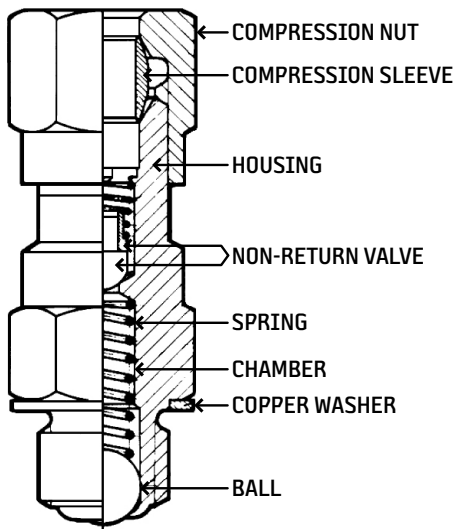
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1 Copley Parkway, Suite 104  
Morrisville, NC 27560

## Operation

*Illustrations and specifications are not binding in detail.*

*Designs are subject to modification and improvement without notice.*



### Typical Cycles

During the pressure stroke, the ball is lifted from its seat in the housing and pushed up to the top against the spring. At the same time, the non-return valve is lifted against the spring thus discharging the lubricant to the lube points.

When de-pressurizing, the non-return valve closes first. The relief valve of the pump maintains a residual pressure of 11 psi (0.8 bar) in the supply line. Against this pressure, the ball is returned to its end position by the spring. The lubricant which remains in front of the ball is returned to the chamber and is ready for the next cycle. The time for re-charging the lubricant is mainly determined by the operational viscosity, discharge volume and other factors such as tubing lengths. The necessary interval between two cycles ranges from 0.13 to 30 seconds.

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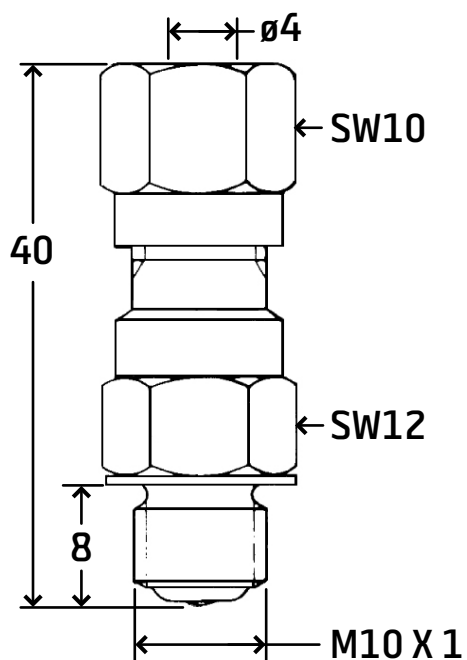
## How to Order

Model	Discharge	Part #
ZEE	0.01cc (10mm <sup>3</sup> )	ZEE01A
	0.025cc (25mm <sup>3</sup> )	ZEE03A
	0.05cc (50mm <sup>3</sup> )	ZEE05A
	0.10cc (100mm <sup>3</sup> )	ZEE10A
	0.20cc (200mm <sup>3</sup> )	ZEE20A

Note:  
3-way Junciton available:  
P.N. 73462-3443

When ordering, specify by model, discharge and part number, e.g. ZEE10 Injector, 0.01cc Discharge, Part #ZEE01A.

## Dimensional Schematics



ZEE previous part number cross:

Previous	Current
35691-1111	ZEE01A
35691-1121	ZEE03A
35691-1131	ZEE05A
35691-1141	ZEE10A
35691-1151	ZEE20A

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