

Application

The TMJE series of oil injector sets can be used for many different applications using the SKF oil injection method. Mounting and dismounting of bearings, couplings, gears and railway wheels are just a few examples. Depending on variant, a maximum pressure of 400 MPa (58,000 psi) can be achieved. The sets are particularly suited to applications where a fully assembled oil injector and pipe are required.

Description

The injector set consists of a ready to use oil injector assembly with an integral pressure gauge, stand and handle and is supplied with a high pressure pipe and accessories (depending on variant). In addition to using with the high pressure pipe supplied, the sets can also be used directly on the application. The design allows oil to be automatically returned to the reservoir, once the pressure is released, minimizing the risk of oil leakage.



Safety

Due to the high pressures involved when using oil injectors, it is essential that the instructions are fully understood before attempting to use the equipment.

Technical data

Injector set	TMJE 300	TMJE 400
Maximum pressure	300 MPa (43,500 psi.)	400 MPa (58,000 psi.)
Handle force at max. pressure	300 N (67.5 lbf)	400 N (90 lbf)
Volume per stroke	0,23 cm ³ (0.014 in ³)	0,23 cm ³ (0.014 in ³)
Oil container capacity	200 cm ³ (12.2 in ³)	200 cm ³ (12.2 in ³)
Cycle life at maximum pressure	100.000 cycles	100.000 cycles
Weight	8 kg (18 lb)	8 kg (18 lb)
Pressure gauge	1077589	1077589/2
Diameter	100 mm (4 in)	100 mm (4 in)
Accuracy	+ 1% of full scale (i.e. 3 MPa or 435 psi)	+ 1% of full scale (i.e. 4 MPa or 580 psi)
High pressure pipe	227957 A	227957 A/400MPa
Length	2 m (78 in)	2 m (78 in)
Outer diameter	4 mm (0.16 in)	6 mm (0.24 in)
Connection thread	G 1/4	G 1/4
Minimum bending radius	50 mm (2 in)	50 mm (2 in)

List of contents

Designation	TMJE 300	TMJE 400
Oil injector	TMJE 300-1	TMJE 400-1
Pressure gauge	1077589	1077589/2
High pressure pipe	227957 A	227957 A/400MPa
Connection nipple	1014357 A	-
Connection nipple	1016402 E	1016402 E
Connection nipple	228027 E	228027 E
Carrying case	728245/3 A	728245/3 A
Plug	729944 E	729944 E
Mounting fluid	LHMF 300/1	LHMF 300/1

Replacement parts

Designation	Description
TMJE 300-1	Sub assembly, (300 MPa / 43,500 psi), all items shown excluding gauge
TMJE 300-2	Stand complete
TMJE 300-3	Oil container connector (incl. washer)
TMJE 300-4	Handle complete
TMJE 300-5	Male G 3/4 to Male G 3/4 double nipple
TMJE 300-6	Swivel nipple for gauge
TMJE 300-8	Valve screw and O-ring
TMJE 300-9	Repair kit
920100 B	Container
920100 B-1	Oil reservoir O-ring
920100 B-2	Oil reservoir nipple & ball
1077597	Filter nipple
TMJE 400-1	Sub assembly (400 MPa / 58,000 psi), all items shown excluding gauge

1077589	Pressure gauge (0 - 400 MPa / 58,000 psi)
1077589/2	Pressure gauge (0 - 400 MPa / 58,000 psi)
227957 A	High pressure pipe (G 3/4 - G 1/4); 300 MPa (43,500 psi)
227957 A/400MPa	High pressure pipe (G 3/4 - G 1/4); 400 MPa (58,000 psi)
1014357 A	Connection nipple (G 1/4 - G 1/8) 300 MPa (43,500 psi)
1016402 E	Connection nipple (G 1/4 - G 1/2) 400 MPa (58,000 psi)
228027 E	Connection nipple (G 1/4 - G 3/4) 400 MPa (58,000 psi)
728245/3 A	Carrying case (65 x 25 x 27 cm) (25.6 x 9.8 x 10.6 in)
729944 E	Plug (G 1/4) 400 MPa (58,000 psi)



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