



734 AV™ Series Installation Equipment for Lockbolts



New Range of Installation Tools for Avdel Lockbolt Systems

Avdel® lockbolt systems are designed for high strength, secure assembly. Quick and simple to place, durable and long lasting, they are the ideal solution where spot welding is not practical and other methods are costly, time consuming or not possible.

Avdel has designed a new range of installation tools, especially suited for high speed installation of larger diameter lockbolts.

To determine the most suitable tool according to fastener size and application requirements, four parts have to be selected:

1. Hand tool
2. Nose equipment
3. Pump unit
4. Hydraulic hose

Placing Tools and Nose Equipment

Features

- Robust and highly durable installation tools
- High performance hydraulic seal & wiper technology
- Piston bearing rings
- Ergonomic and compact design
- High-speed operation

Benefits

- Long working life in extreme conditions
- Increased seal & component life
- Low maintenance
- Optimised operator comfort
- Manoeuvrable in limited access applications
- High speed installation of fasteners



Different AV™ hand tools suit the fastener size ranges and there is one nose equipment for each fastener size. Please select the model according to the diameter of the respective lockbolt.



AV™ 10



AV™ 15



AV™ 30



AV™ 50

Model Part Number		Advanced Information				
		AV™ 10 73430-02000	AV™ 15 73432-02000	AV™ 30 73434-02000	AV™ 50 73435-02000	
Pull force		55 kN (12,364 lbf)	80 kN (17,985 lbf)	175 kN (39,341 lbf)	340 kN (76,435 lbf)	
Stroke		25 mm (0.98")	32 mm (1.26")	41 mm (1.61")	55 mm (2.17")	
Weight		without nose equipment with nose equipment	4.5 kg (9.9 lb) 5.4 kg (11.9 lb)	6.9 kg (15.3 lb) 8.75 kg (19.5 lb)	13.5 kg (29.8 lb) 17.9 kg (39.5 lb)	
Dimensions mm (inch)		A	117 (4.61")	134.5 (5.30")	166.5 (6.55")	
		B	79 (3.11")	87 (3.43")	-	
		ø C	56 (2.20")	66 (2.60")	92 (3.62")	125 (4.92")
		D	236 (9.29")	246 (9.68")	270 (10.63")	318 (12.52")
		E	89 - 95 (3.5 - 3.74")	108 (4.25")	113-134 (4.45-5.28")	148-152 (5.83-5.98")
		Nose Equipment for Fastener-ø		Part Number for above model		
Avbolt®	8.0 mm (5/16")	73430-03300 ¹⁾	-	-	-	
	10.0 mm (3/8")	73430-03200 ¹⁾	-	-	-	
	12.7 mm (1/2")	-	73432-03100 ¹⁾ 73433-03100 ²⁾	73412-03600 ²⁾	-	
	16.0 mm (5/8")	-	-	73412-03400 ²⁾	-	
Avdelok®	9.6 mm (3/8")	73430-03100 ¹⁾	-	-	-	
Avseal® II	16.0 mm 16.0 mm flanged	73430-05000 ¹⁾	-	-	-	
Infalok®	12.7 mm (1/2")	-	73432-03200 ¹⁾ 73433-03200 ²⁾	73412-03100 ²⁾	-	
	15.9 mm (5/8")	-	-	73412-03200 ²⁾	-	
	19.1 mm (3/4")	-	-	73412-03300 ²⁾	-	
	22.2 mm (7/8")	-	-	-	73410-03200 ²⁾	
	25.4 mm (1")	-	-	-	73410-03100 ²⁾	
	28.6 mm (1 1/8")	-	-	-	73410-03300 ²⁾	

¹⁾ without jaw release

²⁾ with jaw release

Pump Units

The pump units are available in different constructions and capacities to suit the installation requirements. They are supplied filled and primed with hydraulic oil.

Features

- High-performance custom Enerpac® pump unit
- High-efficiency 2-stage pump design – higher oil flow and bypass pressure, cooler running
- Powerful universal industrial electric motors – fully enclosed and fan cooled
- High-strength, moulded electrical box protects electronics, power supplies and LCD readout
- IP54 protection and isolation class
- Back-lit LCD provides self test, diagnostic and read-out capabilities never before offered on an industrial pump
- Set pressure feature turns off motor at user defined pressure
- Reservoir heat exchanger
- Full sight oil level glass
- Durable steel reservoirs

Benefits

- Extended working life in harsh industrial environments
- Requires 18% less current draw than comparable pumps
- LCD screen and touch pad enables accurate pressure read-out and easy setting of operating pressures
- Heat exchanger provides cooler operation, stabilizes oil viscosity, increasing oil life and reducing wear on pump and tool components.
- High speed installation of fasteners
- Low maintenance
- Enerpac® Global support and lifetime warranty



EP8 & EP9 with skid bars for easy portability



Reservoir heat exchanger



LCD screen



Full sight oil level glass

To help you find the suitable pump unit according to your requirements and working environment, please use the selection guide below:

Model	EP1	EP2	EP3	EP4	EP5	EP6	EP7	EP8	EP9
Part Number	73440-02000	73441-02000	73442-02000	73443-02000	73444-02000	73445-02000	73446-02000	73447-02000	73448-02000
Speed of Operation									
- High	✓	-	-	✓	-	-	✓	-	-
- Medium	-	✓	-	-	✓	-	-	✓	✓
- Low	-	-	✓	-	-	✓	-	-	-
Production Level									
- High volume	✓	-	✓	✓	-	✓	✓	-	-
- Medium volume	-	✓	-	-	✓	-	-	-	-
- Small batch	-	-	-	-	-	-	-	✓	✓
Portability Level									
- High	-	-	-	-	-	-	-	✓	✓
- Medium	✓	✓	✓	✓	✓	✓	✓	-	-

Technical Data

Model	EP1	EP2	EP3	EP4	EP5	EP6	EP7	EP8	EP9
Part Number	73440-02000	73441-02000	73442-02000	73443-02000	73444-02000	73445-02000	73446-02000	73447-02000	73448-02000
Motor Power	5.6 kW	1.25 kW	1.12 kW	5.6 kW	1.25 kW	1.12 kW	5.6 kW	1.25 kW	1.25 kW
Power Supply									
- Voltage	380/415 V	208/240 V	208/240 V	460/480 V	115 V	115 V	208/240 V	208/240 V	115 V
- Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
- Phase	3 Phase	1 Phase	1 Phase	3 Phase	1 Phase	1 Phase	3 Phase	1 Phase	1 Phase
- Full Load Amps	10.2 A	11.0 A	6.8 A	8.4 A	21.0 A	21.0 A	16.8 A	11.0 A	21.0 A
Output Flow Rate									
- l/min. at 7 bar	12.3	11.5	8.9	12.3	11.5	8.9	12.3	11.5	11.5
- l/min. at 50 bar	12.2	8.8	8.2	12.2	8.8	8.2	12.2	8.8	8.8
- l/min. at 350 bar	2.9	1.2	0.8	2.9	1.2	0.8	2.9	1.2	1.2
- l/min. at 600 bar	2.7	1.0	0.8	2.7	1.0	0.8	2.7	1.0	1.0
Hydraulic Pressure	Pull 600 bar (8,702 psi) Return 200 bar (2,901 psi)								
Reservoir	20 l (1,220 in ³)							4 l (244 in ³)	
Envelope L x H x W	865 x 706 x 516 mm (34" x 28" x 20")							635 x 450 x 267 mm (25" x 18" x 10.5")	
Weight									
- without oil ³⁾	110 kg (242.5 lb)	69 kg (152 lb)	87 kg (192 lb)	110 kg (242.5 lb)	69 kg (152 lb)	87 kg (192 lb)	110 kg (242.5 lb)	32 kg (71.5 lb)	32 kg (71.5 lb)
- with full oil tank ³⁾	128 kg (275.6 lb)	87 kg (192 lb)	105 kg (231 lb)	128 kg (275.6 lb)	87 kg (192 lb)	105 kg (231 lb)	128 kg (275.6 lb)	36 kg (79.4 lb)	36 kg (79.4 lb)
Base Type	Trolley & Roll Bar							Skid Bar	
IP Rating	IP 54								
Heat Exchanger	Yes								
Digital LCD Display	Yes								

³⁾ Pump units are supplied filled and primed with hydraulic oil.

Hydraulic Hose Assemblies

There are different hose lengths available. Please select the length according to application:

Hose Assembly Length	Part Number
5 metre	07008-00448
10 metre	07008-00449
15 metre	07008-00450



Oil

Pump units are already supplied filled and primed with hydraulic oil. For future maintenance you can order the following:

Hydraulic Oil Volume	Part Number
1 litre	07992-00081
5 litres	07992-00082
20 litres	07992-00083