

STANLEY®
Engineered Fastening



STANLEY®
Assembly Technologies

734 AV® Series
Lockbolt Installation Systems



Updated Range of Installation Tools for Lockbolt Systems

STANLEY 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.

We have developed an updated range of installation tools, especially suited for high-speed installation of larger diameter lockbolts.

The new additions to the proven 734 AV® series placing tools have been developed specifically for use with NeoBolt® lockbolts, allowing the full application grip capability of these exceptional lockbolts to be realized. Powered by the industry leading Enerpac® PRO series pump units, the 734 AV series range of lockbolt installation tools is now even more versatile than before.

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



AV® Series Tools

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.



Model Part Number		AV 10 73430-00001	AV 15 73432-00001	AV 30 73434-00001	AV 50 73435-00001
Pull force		55 kN	80 kN	175 kN	340 kN
Stroke		25 mm	32 mm	41 mm	55 mm
Weight without nose equipment with nose equipment		3.5 kg 3.9 kg	4.5 kg 5.4 kg	6.8 kg 8.75 kg	13.5 kg 17.9 kg
Dimensions mm		A 117	134.5	166.5	192
	B	79	87	-	-
	øC	56	66	92	125
	D	236	246	270	318
	E	89-95	108	113-134	148-152
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⁾	-
Avseal® II	16.0 mm	73430-05000 ¹⁾	-	-	-
	16.0 mm flanged	73430-05200 ¹⁾	-	-	-
	18.0 mm	73430-05200 ¹⁾	-	-	-
	19.0 mm flanged	73430-05000 ¹⁾	-	-	-
	22.0 mm flanged	73430-05000 ¹⁾	-	-	-

¹⁾ without jaw release ²⁾ with jaw release
All AV series tools work with all models of Enerpac PRO Series Pump Units.



AV[®] Series Tools

These new additions to the proven 734 AV series placing tools have been developed specifically for use with NeoBolt lockbolts, allowing the full application grip capability of these exceptional lockbolts to be realized.



Model Part Number		AV 5 73425-02000	AV 20 73482-00001	AV 25 73483-00001
Pull force		36 kN	80 kN	140 kN
Stroke		30 mm	45 mm	60 mm
Weight without nose equipment		2.9 kg	4.4 kg	6.87 kg
Dimensions mm	Length	246	160.5	211.0
	Width	48	65	82
	Height	230	254	276
Nose Equipment for Fastener		Part Number for Above Model		
Avbolt [®]	1/4"	07220-07500	-	-
	5/16"	07220-07700	-	-
	1/2"	-	73433-03100	73412-03600
	5/8"	-	-	73412-03400
Avseal [®] II	11.0 mm	07220-06600	-	-
	12.0 mm	07220-06700	-	-
	13.0 mm	07220-06600	-	-
	14.0 mm	07220-06700	-	-
	14.0 mm flanged	07220-06700	-	-
	16.0 mm	07220-06800	-	-
	16.0 mm flanged	07220-06800	-	-
	19.0 mm flanged	07220-06800	-	-
Avtainer [®]	3/8"	71230-15600	-	-
Monobolt [®]	1/4"	71230-15800	-	-
	3/8	07220-07200	-	-
Neobolt [®]	5/16"	73200-05000	-	-
Neobolt [®] XT	3/8"	73200-05400	-	-
	12 mm	-	73482-03800	-
	1/2"	-	73482-03700	-
	14 mm	-	-	73483-03700
	5/8"	-	-	73483-03500
	16 mm	-	-	73434-03400
	3/4"	-	-	73483-03600

Enerpac[®] PRO Series Pumps

STANLEY Engineered Fastening has partnered with Enerpac, the World Leader in Hydraulic Equipment to offer a specialized selection of reliable, durable, and versatile high-pressure hydraulic pumps to power all AV[®] Hydro-Electric Power Tools.

Key Features and Benefits

- High-efficiency hydraulic pump design; higher oil flow and bypass pressure, cooler running and requires 18% less current draw than comparable pumps
- Powerful electric motor provides high power-to-weight ratio and excellent low-voltage operating characteristics
- High-strength, molded composite shroud protects electric pump motor and electronics, while providing an ergonomic, non-conductive handles for easy portability
- Full sight oil level glass & durable steel reservoir
- All pump configurations able to power all AV series tools

Pump versions with a heat exchanger are suitable for high-volume productions.

PRO & PRO PLUS type units

F type includes heat exchanger, roll cage, wheel base and handle

A type does not include heat exchanger, roll cage, wheel base and handle

PRO-E type unit

D type includes LCD screen, heat exchanger and skid bar

A type does not include LCD screen, heat exchanger, roll cage, wheel base, skid bar or pressure transducer control



Reservoir heat exchanger



Full sight oil level glass



LCD screen



Hydraulic Hose Assemblies

There are different hose lengths available.

Please select the length according to your application:

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

Hydraulic Oil

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

Part Number	07992-00081	07992-00082	07992-00083
Enerpac Part Number	HF-95X	HF-95Y	HF-95T
Volume	1 Liter	5 Liters	20 Liters
Viscosity	32 mm ² /s	32 mm ² /s	32 mm ² /s

Enerpac® PRO Series Pumps

Specifications

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

Technical Data

Model		PRO 115-A	PRO 115-F	PRO 220-A	PRO 220-F	PRO 240-A	PRO 240-F	PRO 415-A	PRO 415-F	PRO 480-A	PRO 480-F	
Part Number		76501-02000	76501-02500	76502-02000	76502-02500	76503-02000	76503-02500	76504-02000	76504-02500	76505-02000	76505-02500	
Motor Type		IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	
Power	kW	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	
	hp	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	
Voltage	V	115	115	208-240	208-240	208-240	208-240	380-415	380-415	460-480	460-480	
Frequency	Hz	50-60	50-60	50-60	50-60	50-60	50-60	50-60	50-60	50-60	50-60	
Phase		1	1	1	1	3	3	3	3	3	3	
Full Load	A	18.0	18.0	6.8	6.8	6.8	6.8	3.0	3.0	2.4	2.4	
Output Flow Rate (l/Min)	50 bar	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	
		500 in³/min	500 in³/min	500 in³/min	500 in³/min	500 in³/min	500 in³/min	500 in³/min	500 in³/min	500 in³/min	500 in³/min	
	700 bar	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	
		50 in³/min	50 in³/min	50 in³/min	50 in³/min	50 in³/min	50 in³/min	50 in³/min	50 in³/min	50 in³/min	50 in³/min	
Reservoir	liters	10	10	10	10	10	10	10	10	10	10	
	gal.	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	
Sound	dB(A)	75	75	75	75	75	75	75	75	75	75	
Weight incl. Oil	kg	51	86	51	86	51	86	51	86	51	86	
	lbs.	112	190	112	190	112	190	112	190	112	190	
Dimensions mm (in.)	L	mm	559	865	559	865	559	865	559	865	559	865
		in.	22	34	22	34	22	34	22	34	22	34
	W	mm	384	410	384	410	384	410	384	410	384	410
		in.	15	16	15	16	15	16	15	16	15	16
	H	mm	457	682	457	682	457	682	457	682	457	682
		in.	18	27	18	27	18	27	18	27	18	27
LCD Display		•	•	•	•	•	•	•	•	•	•	
Heat Exchanger			•		•		•		•		•	
Skid Bar												
Roll Cage			•		•		•		•		•	
Wheel Base & Handle			•		•		•		•		•	

IND = Induction UNI = Universal

Enerpac® PRO Series Pumps

Specifications

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

Technical Data

Model			PRO 115E-A*	PRO 115E-D	PRO 220E-A*	PRO 220E-D	PRO 240 PLUS-A	PRO 240 PLUS-F	PRO 415 PLUS-A	PRO 415 PLUS-F	PRO 480 PLUS-A	PRO 480 PLUS-F
Part Number			76506-02000	76506-02300	76507-02000	76507-02300	76508-02000	76508-02500	76510-02000	76510-02500	76511-02000	76511-02500
Motor Type			UNI	UNI	UNI	UNI	IND	IND	IND	IND	IND	IND
Power	kW	1.25	1.25	1.25	1.25	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	hp	1.7	1.7	1.7	1.7	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Voltage	V	115	115	208-240	208-240	208-240	208-240	380-415	380-415	460-480	460-480	460-480
Frequency	Hz	50-60	50-60	50-60	50-60	50-60	50-60	50-60	50-60	50-60	50-60	50-60
Phase			1	1	1	1	3	3	3	3	3	3
Full Load	A	21.0	21.0	11.0	11.0	16.8	16.8	10.2	10.2	8.4	8.4	8.4
Output Flow Rate (l/Min)	50 bar	8.8	8.8	8.8	8.8	12.2	12.2	12.2	12.2	12.2	12.2	12.2
		537 in³/min	537 in³/min	537 in³/min	537 in³/min	744 in³/min	744 in³/min	744 in³/min	744 in³/min	744 in³/min	744 in³/min	744 in³/min
	700 bar	1.0	1.0	1.0	1.0	2.7	2.7	2.7	2.7	2.7	2.7	2.7
		61 in³/min	61 in³/min	61 in³/min	61 in³/min	165 in³/min	165 in³/min	165 in³/min	165 in³/min	165 in³/min	165 in³/min	165 in³/min
Reservoir	liters	4	4	4	4	10	10	10	10	10	10	10
	gal.	1.0	1.0	1.0	1.0	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Sound	dB(A)	85-90	85-90	85-90	85-90	75	75	75	75	75	75	75
Weight incl. Oil	kg	32	36	32	36	78	113	78	113	78	113	113
	lbs.	71	79	71	79	112	249	112	249	112	249	249
Dimensions mm (in.)	L	mm	635	635	635	635	559	865	559	865	559	865
		in.	25	25	25	25	22	34	22	34	22	34
	W	mm	267	267	267	267	384	410	384	410	384	410
		in.	10.5	10.5	10.5	10.5	15	16	15	16	15	16
	H	mm	450	450	450	450	457	682	457	682	457	682
		in.	18	18	18	18	18	27	18	27	18	27
LCD Display				•		•	•	•	•	•	•	•
Heat Exchanger				•		•		•		•		•
Skid Bar				•		•						
Roll Cage								•		•		•
Wheel Base & Handle								•		•		•

*Contact a STANLEY representative for operation guidance before setting Neobolt® Fasteners.

IND = Induction UNI = Universal



AVDEL

Structural Blind Fasteners

INTEGRA

Plastic Components

NELSON

Stud Welding

OPTIA

Threaded Fasteners

POP

Non-structural Blind Fasteners

STANLEY
Assembly Technologies

Specialist Assembly

TUCKER

Automated Fastener Systems



STANLEY
Engineered Fastening

Stanley Engineered Fastening — a division of Stanley Black and Decker — is the global leader in precision fastening and assembly solutions. Our industry-leading brands, Avdel®, Integra™, Nelson®, Optia™, POP®, Stanley® Assembly Technologies, and Tucker®, elevate what our customers create. Backed by a team of passionate and responsive problem-solvers, we empower engineers to create the future.

STANLEY ENGINEERED FASTENING FAMILY OF BRANDS

AVDEL **INTEGRA** **NELSON** **OPTIA** **POP** **STANLEY** **TUCKER**
Assembly Technologies