

PNEUMATIC POWER SLIP (Eq. to PS 16)

Model: ABPPS-27

Autobahn manufactures the Pneumatic Power Slip (ABPPS-27), an air-operated power slip designed to handle drill pipe and tubing with slip sizes ranging from 3.1/2" to 5.1/2", adjustable by changing inserts. The Pneumatic Power Slip can be controlled either by a lever or a footoperated remote control valve.

Setting the Power Slip is achieved by a combination of gravity and applied air pressure, while release is facilitated solely by applied air pressure. This eliminates the need for manual setting and lifting of the slip. The Pneumatic Power Slip is compatible with 27.1/2", 37.1/2" and 49.1/2" Rotary Tables equipped with API standard Pin Drive Master Bushings.

Special Features:

- 1. Ergonomically designed for userfriendliness.
- 2. Operable by a single individual.
- 3. Remote control capability allows operation from a safer distance.
- 4. Enhances crew safety on the rigfloor.



Pneumatic Power Slip Figure No. 37

The unit consists of three major assemblies as follows:

1. Top Cover Assembly:

The Top Cover is designed in two halves and is equipped with two air cylinders connected via a ball floating joint secured with hex head screws. Mounted on four slip hangers with pins, the Top Cover Assembly facilitates smooth operation.

2. Slip Assembly:

Comprising four Slip Segments with a 16.1/2" grip length for gripping various tubular sizes, each segment is outfitted with 48 inserts, 4 insert retaining rings, and 8 Allen screws.

3. Bowl Assembly:

The Bowl Assembly, comprising two halves connected with a bowl hinge pin, enables easy installation and removal of the Power Slip from the Master Bushing. Equipped with four coil spring cartridges, it ensures efficient slip operation.

4. Air Cylinders Assembly:

This assembly includes two Air Cylinders connected to the Top Cover via floating joints. The Air Cylinders facilitate the lifting of the Top Cover Assembly along with the slip assembly.

5. Control System:

The Control System incorporates a filter/regulator, inline (pilot operated) valve, hand-operated pilot valve, quick exhaust valve, and various connecting hoses and fittings. It can be operated via Hand Control or Foot Pedal Control System for enhanced flexibility and ease of use.



Part List of Pneumatic Power Slip:

14. PPS - 34 Slip Bowl (One set of Two pcs.) 1 Set 15. PPS - 35 Bowl Hinge Pin 1 No. 16. PPS - 36 Brass Bush 4 No. 17. PPS - 37 Pneumatic Control System 1 No. 18. PPS - 37 Pneumatic Hose Unit consists of Hoses, Couplings with Connectors 1 No. 19. PPS - 38 Pneumatic Hose Unit consists of Hoses, Couplings with Connectors 1 No. 19. PPS - 39 Foot Pedal to operate remote control valve 1 No. 20. PPS - 40 Lever to operate remote control valve 1 No. 21. PPS - 41 Lifting Sling (Four Hooks Type). 1 No. 22. 5163 Inserts to handle 3.1/2" Drill Pipe for Slip Body Size 4.1/2" 4 Set 23. Inserts (Taper Design) to handle 3.1/2" Drill Pipe for Slip Body Size 4.1/2" 4 Set 24. 5164 Inserts to handle 4" Drill Pipe for Slip Body Size 4.1/2" 4 Set 25. 5164-B Inserts (Taper Design) to handle 4" Drill Pipe for Slip Body Size 4.1/2" 4 Set 26. 5165 Inserts to handle 4.1/2" Drill Pipe for S	S. No.	P/N	Description	Qty. Per Unit
3. PPS - 23 Hex Head Screw 2 No. 4. PPS - 24 Air Cylinder 2 No. 5. PPS - 25 Floating Joint 2 No. 6. PPS - 26 Bellow 2 No. 7. PPS - 27 Quick Exhaust Valve 4 No. 8. PPS - 28 Slip Hanger 4 No. 9. PPS - 29 Slip Hanger Bottom Pin w/Cotter Pin 4 No. 10. PPS - 30 Slip Hanger Bottom Pin w/Cotter Pin 4 No. 11. PPS - 31 5.1/2" Slip Segment to handle 4.1/2"-5.1/2" Drill Pipe 4 No. 12. PPS - 33 5.1/2" Slip Segment to handle 3.1/2"-4.1/2" Drill Pipe 4 No. 13. PPS - 33 Spring Cartridge 4 No. 14. PPS - 33 Spring Cartridge 4 No. 15. PPS - 33 Bowl Hinge Pin 1 No. 16. PPS - 34 Slip Bowl (One set of Two pcs.) 1 No. 17. PPS - 37 Pneumatic Control System 1 No. 18. PPS - 38 Pneumatic Hose Unit con	1.	PPS - 21	Top Cover	1 No.
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17. PPS - 37 Pneumatic Control System 1 No. 18. PPS - 38 Pneumatic Hose Unit consists of Hoses, Couplings with Connectors 1 No. 19. PPS - 39 Foot Pedal to operate remote control valve 1 No. 20. PPS - 40 Lever to operate remote control valve 1 No. 21. PPS - 41 Lifting Sling (Four Hooks Type). 1 No. 22. 5163 Inserts to handle 3.1/2" Drill Pipe for Slip Body Size 4.1/2" 4 Set (One set consists of 08 no. of Inserts) 23. 5163-B Inserts (Taper Design) to handle 3.1/2" Drill Pipe for Slip Body Size 4.1/2" 4 Set (One set consists of 04 no. of Inserts) 24. 5164 Inserts to handle 4" Drill Pipe for Slip Body Size 4.1/2" 4 Set (One set consists of 08 no. of Inserts) 25. 5164-B Inserts (Taper Design) to handle 4" Drill Pipe for Slip Body Size 4.1/2" 4 Set (One set consists of 04 no. of Inserts) 26. 5165 Inserts to handle 4.1/2" Drill Pipe for Slip Body Size 4.1/2" 4 Set (One set consists of 12 no. of Inserts) 27. 5168 Inserts to handle 4.1/2" Drill Pipe for Slip Body Size 5.1/2" 4 Set (One set consists of 08 no. of Inserts) 28. 5168-B Inserts (Taper Design) to handle 4.1/2" Drill Pipe for Slip Body Size 5.1/2" 4 Set (One set consists of 08 no. of Inserts) 29. 5169 Inserts (Taper Design) to handle 4.1/2" Drill Pipe for Slip Body Size 5.1/2" 4 Set (One set consists of 04 no. of Inserts) 10. 5169-B Inserts (Taper Design) to handle 5" Drill Pipe for Slip Body Size 5.1/2" 4 Set (One set consists of 04 no. of Inserts) 11. Set Stop Inserts (Taper Design) to handle 5" Drill Pipe for Slip Body Size 5.1/2" 5 Set (One set consists of 04 no. of Inserts) 12. Inserts (Taper Design) to handle 5" Drill Pipe for Slip Body Size 5.1/2" 5 Set (One set consists of 04 no. of Inserts) 13. Set (One set consists of 04 no. of Inserts) 14. Set (One set consists of 04 no. of Inserts) 15. Set (One set consists of 04 no. of Inserts) 16. Set (One set consists of 04 no. of Inserts) 17. Set (One set consists of 04 no. of Inserts)	15.	PPS - 35	Bowl Hinge Pin	1 No.
18. PPS - 38 Pneumatic Hose Unit consists of Hoses, Couplings with Connectors 1 No. 19. PPS - 39 Foot Pedal to operate remote control valve 1 No. 20. PPS - 40 Lever to operate remote control valve 1 No. 21. PPS - 41 Lifting Sling (Four Hooks Type). 22. 5163 Inserts to handle 3.1/2" Drill Pipe for Slip Body Size 4.1/2" (One set consists of 08 no. of Inserts) 3 Inserts (Taper Design) to handle 3.1/2" Drill Pipe for Slip Body Size 4.1/2" (One set consists of 04 no. of Inserts) 4 Set 24. 5164 Inserts to handle 4" Drill Pipe for Slip Body Size 4.1/2" (One set consists of 08 no. of Inserts) 4 Set 25. 5164-B Inserts (Taper Design) to handle 4" Drill Pipe for Slip Body Size 4.1/2" (One set consists of 04 no. of Inserts) 4 Set 26. 5165 Inserts to handle 4.1/2" Drill Pipe for Slip Body Size 4.1/2" (One set consists of 12 no. of Inserts) 4 Set 27. 5168 Inserts to handle 4.1/2" Drill Pipe for Slip Body Size 5.1/2" (One set consists of 08 no. of Inserts) 4 Set 28. 5168-B Inserts (Taper Design) to handle 4.1/2" Drill Pipe for Slip Body Size 5.1/2" (One set consists of 08 no. of Inserts) 4 Set 29. 5169 Inserts to handle 5" Drill Pipe for Slip Body Size 5.1/2" (One set consists of 08 no. of Inserts) 1 No. 1 No. 1 No. 1 No. 4 Set 2 Set 2 Set 2 Silva Sil	16.	PPS - 36	Brass Bush	4 No.
19. PPS - 39 Foot Pedal to operate remote control valve 1 No. 20. PPS - 40 Lever to operate remote control valve 1 No. 21. PPS - 41 Lifting Sling (Four Hooks Type). 1 No. 22. 5163 Inserts to handle 3.1/2" Drill Pipe for Slip Body Size 4.1/2" 4 Set (One set consists of 08 no. of Inserts) 4 Set (Inserts (Taper Design) to handle 3.1/2" Drill Pipe for Slip Body Size 4.1/2" 4 Set (One set consists of 04 no. of Inserts) 4 Set (Inserts (Taper Design) to handle 4" Drill Pipe for Slip Body Size 4.1/2" 4 Set (One set consists of 04 no. of Inserts) 4 Set (Inserts to handle 4" Drill Pipe for Slip Body Size 4.1/2" 4 Set (One set consists of 04 no. of Inserts) 4 Set (Inserts to handle 4.1/2" Drill Pipe for Slip Body Size 4.1/2" 4 Set (One set consists of 12 no. of Inserts) 4 Set (One set consists of 12 no. of Inserts) 4 Set (Inserts to handle 4.1/2" Drill Pipe for Slip Body Size 5.1/2" 4 Set (Inserts to handle 4.1/2" Drill Pipe for Slip Body Size 5.1/2" 4 Set (Inserts to handle 4.1/2" Drill Pipe for Slip Body Size 5.1/2" 4 Set (Inserts to handle 5" Drill Pipe for Slip Body Size 5.1/2" 4 Set (Inserts to handle 5" Drill Pipe for Slip Body Size 5.1/2" 4 Set (Inserts to handle 5" Drill Pipe for Slip Body Size 5.1/2" 4 Set (Inserts to handle 5" Drill Pipe for Slip Body Size 5.1/2" 4 Set (Inserts to handle 5" Drill Pipe for Slip Body Size 5.1/2" 4 Set (Inserts to handle 5" Drill Pipe for Slip Body Size 5.1/2" 4 Set (Inserts to handle 5" Drill Pipe for Slip Body Size 5.1/2" 4 Set (Inserts to handle 5" Drill Pipe for Slip Body Size 5.1/2" 4 Set (Inserts to handle 5" Drill Pipe for Slip Body Size 5.1/2" 4 Set (Inserts to handle 5" Drill Pipe for Slip Body Size 5.1/2" 5 Set (Inserts to handle 5.1/2" Drill Pipe for Slip Body Size 5.1/2" 5 Set (Inserts to handle 5.1/2" Drill Pipe for Slip Body Size 5.1/2" 5 Set (Inserts to handle 5.1/2" Drill Pipe for Slip Body Size 5.1/2" 5 Set (Inserts to handle 5.1/2" Drill Pipe for Slip Body Size 5.1/2" 5 Set (Inserts to handle 5.1/2" Drill Pipe for Slip Body Size 5.1/2" 5 Set (Inserts to handle 5.1	17.	PPS - 37	Pneumatic Control System	1 No.
20. PPS - 40 Lever to operate remote control valve 1 No. 21. PPS - 41 Lifting Sling (Four Hooks Type). 1 No. 22. 5163 Inserts to handle 3.1/2" Drill Pipe for Slip Body Size 4.1/2" 4 Set (One set consists of 08 no. of Inserts) 4 Set (One set consists of 04 no. of Inserts) 4 Set (One set consists of 04 no. of Inserts) 4 Set (One set consists of 04 no. of Inserts) 5 Sip Body Size 4.1/2" 4 Set (One set consists of 04 no. of Inserts) 4 Set (One set consists of 04 no. of Inserts) 5 Sip Body Size 4.1/2" 5 Set (One set consists of 04 no. of Inserts) 4 Set (One set consists of 04 no. of Inserts) 5 Sip Body Size 4.1/2" 5 Set (One set consists of 04 no. of Inserts) 5 Sip Body Size 4.1/2" 5 Set (One set consists of 04 no. of Inserts) 5 Sip Body Size 4.1/2" 5 Set (One set consists of 12 no. of Inserts) 5 Sip Body Size 5.1/2" 5 Set (One set consists of 08 no. of Inserts) 5 Sip Body Size 5.1/2" 5 Set (One set consists of 08 no. of Inserts) 6 Sip Body Size 5.1/2" 6 Set (One set consists of 04 no. of Inserts) 7 Sip Body Size 5.1/2" 7 Set (One set consists of 04 no. of Inserts) 8 Set (One set consists of 04 no. of Inserts) 8 Set (One set consists of 04 no. of Inserts) 8 Set (One set consists of 04 no. of Inserts) 9 Sip Body Size 5.1/2" 9 Set (One set consists of 08 no. of Inserts) 8 Sip Body Size 5.1/2" 9 Set (One set consists of 08 no. of Inserts) 9 Sip Body Size 5.1/2" 9 Set (One set consists of 08 no. of Inserts) 9 Sip Body Size 5.1/2" 9 Set (One set consists of 08 no. of Inserts) 9 Sip Body Size 5.1/2" 9 Set (One set consists of 08 no. of Inserts) 9 Sip Body Size 5.1/2" 9 Set (One set consists of 08 no. of Inserts) 9 Sip Body Size 5.1/2" 9 Set (One set consists of 08 no. of Inserts) 9 Sip Body Size 5.1/2" 9 Set (One set consists of 08 no. of Inserts) 9 Sip Body Size 5.1/2" 9 Set (One set consists of 08 no. of Inserts) 9 Sip Body Size 5.1/2" 9 Set (One set consists of 08 no. of Inserts) 9 Sip Body Size 5.1/2" 9 Set (One set consists of 08 no. of Inserts) 9 Sip Body Size 5.1/2" 9 Set (One set consists of 08 no. of Inserts) 9 S	18.	PPS - 38	Pneumatic Hose Unit consists of Hoses, Couplings with Connectors	1 No.
21. PPS - 41 Lifting Sling (Four Hooks Type). 1 No. 22. 5163 Inserts to handle 3.1/2" Drill Pipe for Slip Body Size 4.1/2" 4 Set (One set consists of 08 no. of Inserts) 4 Set 23. 5163-B Inserts (Taper Design) to handle 3.1/2" Drill Pipe for Slip Body Size 4.1/2" 4 Set 24. 5164 Inserts to handle 4" Drill Pipe for Slip Body Size 4.1/2" 4 Set 25. 5164-B Inserts (Taper Design) to handle 4" Drill Pipe for Slip Body Size 4.1/2" 4 Set 26. 5165 Inserts to handle 4.1/2" Drill Pipe for Slip Body Size 4.1/2" 4 Set 27. 5168 Inserts to handle 4.1/2" Drill Pipe for Slip Body Size 5.1/2" 4 Set 28. 5168-B Inserts (Taper Design) to handle 4.1/2" Drill Pipe for Slip Body Size 5.1/2" 4 Set 29. 5169 Inserts of 04 no. of Inserts) 4 Set 30. 5169-B Inserts (Taper Design) to handle 5" Drill Pipe for Slip Body Size 5.1/2" 4 Set 21. Inserts to handle 5" Drill Pipe for Slip Body Size 5.1/2" 4 Set 29. Inserts to handle 5" Drill Pipe for Slip Body Size 5.1/2" 4 Set 29. 5169 Inserts (Taper Design) to handle 5" Drill Pipe for Slip Body Size 5.1/2" 4 Set 20. 5169-B Inserts (Taper Design) to handle 5" Drill Pipe for Slip Body Size 5.1/2" 4 Set 20. 5169-B Inserts (Taper Design) to handle 5" Drill Pipe for Slip Body Size 5.1/2" 4 Set 21. 5170 Inserts to handle 5.1/2" Drill Pipe for Slip Body Size 5.1/2" 4 Set	19.	PPS - 39	Foot Pedal to operate remote control valve	1 No.
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22. S163 (One set consists of 08 no. of Inserts) 23. Inserts (Taper Design) to handle 3.1/2" Drill Pipe for Slip Body Size 4.1/2" 24. S164 Inserts to handle 4" Drill Pipe for Slip Body Size 4.1/2" 25. S164-B Inserts (Taper Design) to handle 4" Drill Pipe for Slip Body Size 4.1/2" 26. S165 Inserts to handle 4.1/2" Drill Pipe for Slip Body Size 4.1/2" 27. S168 Inserts to handle 4.1/2" Drill Pipe for Slip Body Size 4.1/2" 28. S168-B Inserts (Taper Design) to handle 4.1/2" Drill Pipe for Slip Body Size 5.1/2" 29. S169 Inserts (Taper Design) to handle 4.1/2" Drill Pipe for Slip Body Size 5.1/2" 4 Set 29. S169 Inserts (Taper Design) to handle 4.1/2" Drill Pipe for Slip Body Size 5.1/2" 4 Set 29. S169-B Inserts (Taper Design) to handle 4.1/2" Drill Pipe for Slip Body Size 5.1/2" 4 Set 20. S169-B Inserts (Taper Design) to handle 5" Drill Pipe for Slip Body Size 5.1/2" 4 Set 29. S169-B Inserts (Taper Design) to handle 5" Drill Pipe for Slip Body Size 5.1/2" 4 Set 29. Inserts (Taper Design) to handle 5" Drill Pipe for Slip Body Size 5.1/2" 4 Set 29. Inserts (Taper Design) to handle 5" Drill Pipe for Slip Body Size 5.1/2" 4 Set 29. Inserts (Taper Design) to handle 5" Drill Pipe for Slip Body Size 5.1/2" 4 Set 29. Inserts (Taper Design) to handle 5" Drill Pipe for Slip Body Size 5.1/2" 4 Set 29. Inserts (Taper Design) to handle 5" Drill Pipe for Slip Body Size 5.1/2" 4 Set 29. Inserts (Taper Design) to handle 5" Drill Pipe for Slip Body Size 5.1/2" 4 Set	21.	PPS - 41	Lifting Sling (Four Hooks Type).	1 No.
(One set consists of 04 no. of Inserts) 1 Set 1 Set 2 Inserts to handle 4" Drill Pipe for Slip Body Size 4.1/2" (One set consists of 08 no. of Inserts) 2 Inserts (Taper Design) to handle 4" Drill Pipe for Slip Body Size 4.1/2" (One set consists of 04 no. of Inserts) 3 Inserts to handle 4.1/2" Drill Pipe for Slip Body Size 4.1/2" (One set consists of 12 no. of Inserts) 4 Set 2 Inserts to handle 4.1/2" Drill Pipe for Slip Body Size 5.1/2" (One set consists of 08 no. of Inserts) 4 Set 2 Inserts (Taper Design) to handle 4.1/2" Drill Pipe for Slip Body Size 5.1/2" (One set consists of 04 no. of Inserts) 4 Set 5 168-B Inserts (Taper Design) to handle 4.1/2" Drill Pipe for Slip Body Size 5.1/2" (One set consists of 04 no. of Inserts) 4 Set 5 169-B Inserts (Taper Design) to handle 5" Drill Pipe for Slip Body Size 5.1/2" (One set consists of 08 no. of Inserts) 4 Set 5 169-B Inserts (Taper Design) to handle 5" Drill Pipe for Slip Body Size 5.1/2" (One set consists of 04 no. of Inserts) 5 169-B Inserts (Taper Design) to handle 5" Drill Pipe for Slip Body Size 5.1/2" (One set consists of 04 no. of Inserts) 4 Set	22.	5163	Inserts to handle 3.1/2" Drill Pipe for Slip Body Size 4.1/2" (One set consists of 08 no. of Inserts)	4 Set
24. Set	23.	5163-B	Inserts (Taper Design) to handle 3.1/2" Drill Pipe for Slip Body Size 4.1/2" (One set consists of 04 no. of Inserts)	4 Set
(One set consists of 04 no. of Inserts) 26.	24.	5164	Inserts to handle 4" Drill Pipe for Slip Body Size 4.1/2" (One set consists of 08 no. of Inserts)	4 Set
27. S168	25.	5164-B	(One set consists of 04 no. of Inserts)	4 Set
27. S166 (One set consists of 08 no. of Inserts) 28. Inserts (Taper Design) to handle 4.1/2" Drill Pipe for Slip Body Size 5.1/2" 4 Set (One set consists of 04 no. of Inserts) 29. Inserts to handle 5" Drill Pipe for Slip Body Size 5.1/2" 4 One set consists of 08 no. of Inserts) 30. Inserts (Taper Design) to handle 5" Drill Pipe for Slip Body Size 5.1/2" 4 Set (One set consists of 04 no. of Inserts) 4 Set (Inserts to handle 5.1/2" Drill Pipe for Slip Body Size 5.1/2" 4 Set (Inserts to handle 5.1/2" Drill Pipe for Slip Body Size 5.1/2" 4 Set (Inserts to handle 5.1/2" Drill Pipe for Slip Body Size 5.1/2"	26.	5165	(One set consists of 12 no. of Inserts)	4 Set
29. S169 (One set consists of 04 no. of Inserts) 29. Inserts to handle 5" Drill Pipe for Slip Body Size 5.1/2" (One set consists of 08 no. of Inserts) 4 Set 30. S169-B Inserts (Taper Design) to handle 5" Drill Pipe for Slip Body Size 5.1/2" (One set consists of 04 no. of Inserts) 4 Set 5170 Inserts to handle 5.1/2" Drill Pipe for Slip Body Size 5.1/2" 4 Set	27.	5168	(One set consists of 08 no. of Inserts)	4 Set
29. (One set consists of 08 no. of Inserts) 30. Inserts (Taper Design) to handle 5" Drill Pipe for Slip Body Size 5.1/2" 4 Set 31. Inserts to handle 5.1/2" Drill Pipe for Slip Body Size 5.1/2" 4 Set	28.	5168-B	(One set consists of 04 no. of Inserts)	4 Set
(One set consists of 04 no. of Inserts) (One set consists of 04 no. of Inserts) Inserts to handle 5.1/2" Drill Pipe for Slip Body Size 5.1/2" 4 Set	29.	5169	Inserts to handle 5" Drill Pipe for Slip Body Size 5.1/2" (One set consists of 08 no. of Inserts)	4 Set
31. Inserts to handle 5.1/2" Drill Pipe for Slip Body Size 5.1/2" (One set consists of 12 no. of Inserts) 4 Set	30.	5169-B	(One set consists of 04 no. of Inserts)	4 Set
	31.	5170	Inserts to handle 5.1/2" Drill Pipe for Slip Body Size 5.1/2" (One set consists of 12 no. of Inserts)	4 Set