

# Interchangeable inch round air cylinder DPRA

**FESTO**



## Round inch cylinder

### Highlights

- 24 hour shipping on common configurations
- Attractive pricing
- Stainless steel piston rod standard on all sizes
- Low friction U-cup seals; Viton optional
- Bumpers or air cushions optional
- Configuration options include:
  - Stainless or polymer heads/caps
  - hollow rod
  - ...and more

The Festo DPRA is Festo's direct interchange round-body pneumatic cylinder. This product was designed to meet the specific requirements of this style of actuator: readily available with consistently short lead times, cost optimized, and flexibility for special modifications to suit almost any general automation application. The DPRA cylinder is offered in a complete range of 10 bore sizes and a variety of stroke lengths up to 12" with a wide selection of models and options as standard.

### More performance and reliability

Superior performance due to 303 stainless steel piston rod and 304 stainless housing providing low friction and long life.

Oil-impregnated piston rod bushing and low friction U-cup seals create a pneumatic cylinder with efficient performance, superior service life and reliability.

Premium lubrication provides excellent running characteristics and outstanding efficiency.

### More applications

DPRA offers direct interchangeability within the product classification of non-repairable round-body cylinders.

Available in a wide range of bore sizes from 9/16" to 3", stroke lengths up to 12" as standard.

Standard 303 stainless steel piston rod provides corrosion resistance in harsh environments.

Optional high temperature and low temperature seals are available for special environments.

An extensive range of variants and mounting accessories for most applications.

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## Cylinder head and cap

- High strength aluminum head and cap
- Full-flow ports and cross-slots allow quick cylinder response and smooth rod movement
- Optional adjustable air cushions or bumpers for end position impact dampening

## High performance grease

- Internally lubed for life with proprietary grease standard
- Super Lube® is NSF-H1 rated food grade grease

## Cylinder tube

- Drawn and polished 304 stainless steel barrel enables corrosion resistance and allows for low friction internal operation
- Cylinder body tube and end caps are attached with double rolled-in crimp for rigid connection

## Piston and rod seals

- Low friction Buna-N U-cup seal is inherently wear compensating for long, hassle-free operation
- Optional high and low temperature seals are also available
- Optional magnet available to allow for position indication

## Piston rod


- 303 stainless steel rod, ground, polished and roller burnished providing long life and corrosion resistance
- Roll-formed rod threads at both ends provide strength for customer connections as well as the internal piston connection


## Rod bearing

- Oil impregnated sintered bronze rod bearing provides excellent wear and long life



## Common configurations in stock and available now.

Nose mount, axial port	Stroke length [inches]	Piston diameter									
		3/4"		1 1/16"		1 1/4"		1 1/2"		2"	
	1/2"	8217823	DPRA-N-3/4"-0.5-NGP4-N	8217854	DPRA-N-1 1/16"-0.5-NGP4-N						
	1"	8217824	DPRA-N-3/4"-1-NGP4-N	8217838	DPRA-N-1 1/16"-1-NGP4-N	8217855	DPRA-N-1 1/4"-1-NGP4-N	8217879	DPRA-N-1 1/2"-1-NGP4-N	8217891	DPRA-N-2"-1-NGP4-N
	1 1/2"	8217826	DPRA-N-3/4"-1.5-NGP4-N	8217853	DPRA-N-1 1/16"-1.5-NGP4-N			8217866	DPRA-N-1 1/2"-1.5-NGP4-N		
	2"	8217827	DPRA-N-3/4"-2-NGP4-N	8217845	DPRA-N-1 1/16"-2-NGP4-N	8217856	DPRA-N-1 1/4"-2-NGP4-N	8217867	DPRA-N-1 1/2"-2-NGP4-N	8217880	DPRA-N-2"-2-NGP4-N
	3"	8217828	DPRA-N-3/4"-3-NGP4-N	8217846	DPRA-N-1 1/16"-3-NGP4-N	8217857	DPRA-N-1 1/4"-3-NGP4-N	8217868	DPRA-N-1 1/2"-3-NGP4-N	8217881	DPRA-N-2"-3-NGP4-N
	4"	8217829	DPRA-N-3/4"-4-NGP4-N	8217842	DPRA-N-1 1/16"-4-NGP4-N	8217858	DPRA-N-1 1/4"-4-NGP4-N	8217869	DPRA-N-1 1/2"-4-NGP4-N	8217882	DPRA-N-2"-4-NGP4-N
	5"			8217844	DPRA-N-1 1/16"-5-NGP4-N	8217859	DPRA-N-1 1/4"-5-NGP4-N	8217870	DPRA-N-1 1/2"-5-NGP4-N	8217883	DPRA-N-2"-5-NGP4-N
6"							8217871	DPRA-N-1 1/2"-6-NGP4-N	8217884	DPRA-N-2"-6-NGP4-N	

Rear pivot	Stroke length [inches]	Piston diameter									
		3/4"		1 1/16"		1 1/4"		1 1/2"		2"	
	1/2"	8217830	DPRA-N-3/4"-0.5-ME-N	8217839	DPRA-N-1 1/16"-0.5-ME-N						
	1"	8217825	DPRA-N-3/4"-1-ME-N	8217840	DPRA-N-1 1/16"-1-ME-N	8217860	DPRA-N-1 1/4"-1-U-N	8217872	DPRA-N-1 1/2"-1-ME-N	8217885	DPRA-N-2"-1-UB-N
	1 1/2"	8217831	DPRA-N-3/4"-1.5-ME-N	8217849	DPRA-N-1 1/16"-1.5-ME-N			8217873	DPRA-N-1 1/2"-1.5-ME-N		
	2"	8217832	DPRA-N-3/4"-2-ME-N	8217847	DPRA-N-1 1/16"-2-ME-N	8217865	DPRA-N-1 1/4"-2-U-N	8217874	DPRA-N-1 1/2"-2-ME-N	8217886	DPRA-N-2"-2-UB-N
	3"	8217833	DPRA-N-3/4"-3-ME-N	8217848	DPRA-N-1 1/16"-3-ME-N	8217861	DPRA-N-1 1/4"-3-U-N	8217875	DPRA-N-1 1/2"-3-ME-N	8217887	DPRA-N-2"-3-UB-N
	4"	8217834	DPRA-N-3/4"-4-ME-N	8217843	DPRA-N-1 1/16"-4-ME-N	8217862	DPRA-N-1 1/4"-4-U-N	8217876	DPRA-N-1 1/2"-4-ME-N	8217888	DPRA-N-2"-4-UB-N
	5"	8217835	DPRA-N-3/4"-5-ME-N	8217850	DPRA-N-1 1/16"-5-ME-N	8217863	DPRA-N-1 1/4"-5-U-N	8217877	DPRA-N-1 1/2"-5-ME-N	8217889	DPRA-N-2"-5-UB-N
6"			8217852	DPRA-N-1 1/16"-6-ME-N	8217864	DPRA-N-1 1/4"-6-U-N	8217878	DPRA-N-1 1/2"-6-ME-N	8217890	DPRA-N-2"-6-UB-N	

Single acting, spring return	Nose mount	Piston diameter			
		3/4"		1 1/16"	
	1"	8217836	DPRA-N-3/4"-1-SNGP4-N	8217851	DPRA-N-1 1/16"-1-SNGP4-N
	1"	8217837	DPRA-N-3/4"-1-SME-N	8217841	DPRA-N-1 1/16"-1-SME-N

## F-series cylinders at a glance, variants and accessories for greater flexibility

### Available configuration options:

- Stainless steel end caps
- POM end caps
- Viton seals
- Axial supply port
- Non-rotating piston rod
- Bumper or adjustable air cushions
- Threaded nose mount, rear pivot, front block, trunnion mounting
- Magnetic piston for positioning sensing
- Piston rod & rod thread extensions

### Available accessories

- Swivel clevis brackets
- Mounting nuts
- Foot mount bracket
- Rod clevis
- Magnetic sensor with LED (Dovetail style)
  - Sourcing PNP 6-24 V DC
  - Sinking NPN 6-24 V DC
- Sensor mounting bracket



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