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Model Number: 2088-403-144

Shurflo 2088-424-544 Positive Displacement 3 Chamber Diaphragm Pump- 12 Volt 45 PSI New Number Now 2088-403-144

Manufacturer: Shurflo

Shurflo 2088-403-144 / 2088-424-544 12 Volt Diaphragm Pump, 45 PSI, 2.8 GPM  
The Shurflo 2088-403-144, formerly sold as 2088-424-544, is a 12 VDC positive displacement 3-chamber diaphragm pump designed for general industrial, sprayer, transfer, and equipment replacement applications. This pump is factory set for 45 PSI shut-off and provides approximately 2.8 GPM open flow.

Common search and crossover numbers include: 2088-403-144, 2088-424-544, 2088-422-444, MPU 12V 45 SW PES 3.5R 2.8G 1SZW A.

Key Features

- 12 Volt DC permanent magnet motor
- 45 PSI factory shut-off, adjustable 30&ndash;50 PSI
- 2.8 GPM open flow rating
- Self-priming up to 7 ft. vertical lift
- Built-in check valve helps prevent reverse flow
- Thermally protected motor
- Pump head can be rotated in 120-degree increments for easier hose routing
- Intermittent duty cycle

Specifications

Current Part Number  
2088-403-144

Former / Alternate Part Number  
2088-424-544

Pump Type  
Positive displacement 3-chamber diaphragm pump

Voltage  
12 VDC nominal

Flow Rate  
2.8 GPM open flow

Pressure Switch

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Adjustable 30&ndash;50 PSI, factory set at 45 PSI shut-off

Turn-On Pressure  
25 PSI  $\pm$  5 PSI

Ports  
1/2" - 14 male parallel thread

Maximum Liquid Temperature  
130&deg;F / 54&deg;C

Maximum Inlet Pressure  
30 PSI / 2.1 bar

Housing Material  
Polypropylene

Valve Material  
EPDM

Diaphragm Material  
Santoprene

Fasteners  
Zinc-plated steel

Net Weight  
3.7 lbs.

## Applications

- Carpet cleaning and extractor equipment replacement pump
- 12 volt sprayer systems
- General fluid transfer
- Industrial water delivery applications
- Mobile equipment and battery-powered systems

## Important Fitment Notes

Always verify your existing pump label, voltage, pressure rating, port style, and flow

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direction before ordering. Many Shurflo 2088 pumps look similar but may have different pressure switches, flow ratings, valve materials, or port configurations. Product photos are for reference; orders are fulfilled by the part number purchased.

#### FAQ

Is 2088-403-144 the same as 2088-424-544?

This listing is for the current replacement number 2088-403-144, also associated with the prior number 2088-424-544.

Does this pump run on 120 volts?

No. This pump is rated for 12 VDC. Do not connect directly to 120 volt AC power.

Is this a continuous-duty pump?

No. This model is listed as intermittent duty. For extended run times, consider adding the Shurflo heat sink cover / cool clip when appropriate.

Can the pump head be rotated?

Yes. The pump head can be removed and rotated in 120-degree increments to help match the desired water-flow direction.

What fittings does it use?

This pump uses 1/2" - 14 male parallel thread ports. Confirm your current hose and fitting style before ordering.

#### Suggested Meta Title

Shurflo 2088-403-144 12V Diaphragm Pump 45 PSI 2.8 GPM | Replaces 2088-424-544

#### Suggested Meta Description

Buy Shurflo 2088-403-144 12 volt positive displacement 3-chamber diaphragm pump, 45 PSI, 2.8 GPM. Also sold as 2088-424-544. Industrial and equipment replacement pump.

Positive Displacement 3 Chamber Diaphragm Pump (Shipping after June 23, 2026)

MODEL NUMBER: 2088-424-544 (Also sold as 2088-403-144)

PUMP DESIGN: Positive Displacement 3 Chamber Diaphragm Pump

CHECK VALVE: (1-Way Operation) Prevents Reverse Flow

CAM: 3.5 Degree

MOTOR: Permanent Magnet, P/N 11-148-04, Thermally Protected

VOLTAGE: 12 VDC Nominal

PRESSURE SWITCH: Adjustable from 30-50 PSI. Factory Set @ 45 PSI Shut-Off, Turn On 25 5 PSI

LIQUID TEMPERATURE: 130 Degrees Fahrenheit (54 Degrees Centigrade) Max.

PRIME: Self-Priming Up To 7.0 Ft. Vertical,

Max. Inlet Pressure 30 PSI (2.1 Bar)

PORTS: 1/2" - 14 Male Parallel Thread

MATERIAL OF CONSTRUCTION:

PLASTICS- Polypropylene

VALVES- EPDM

DIAPHRAGM- Santoprene

FASTENERS- Zinc Plated Steel

NET WEIGHT: 3.7 Lbs (1.68 Kg)

DUTY CYCLE: Intermittent (See Temp. Rise Chart)

TYPICAL APPLICATIONS: Industrial, General Purpose  
2.8 GPM

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Compare to current or past OEM associations:  
2088-422-444  
2088-403-144  
2088-424-544

MPU 12V 45 SW PES 3.5R 2.8G 1SZW A

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9.102-167.0  
91021670

Pump heads can be removed and rotated in 120 degree increments to change the orientation of the water flow.

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*Availability: This product was added to our catalog on Saturday 07 April, 2012*