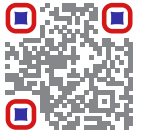
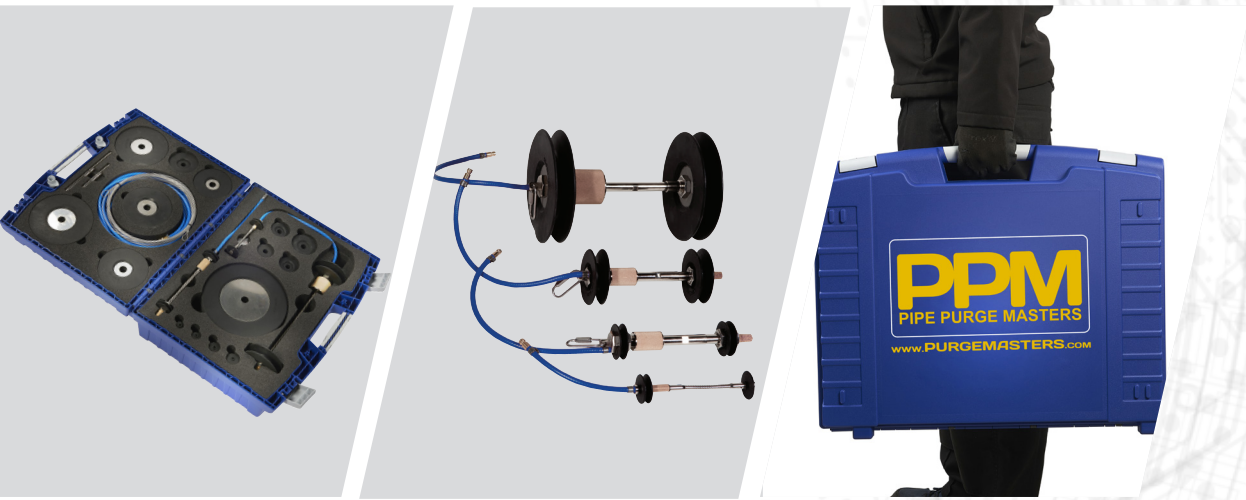


DOUBLE SEAL SYSTEMS



Sizes: 3/4 - 12" / 16 - 320 mm



AN  GROUP BRAND

PRODUCT BROCHURE

www.PURGEMASTERS.COM



The **Specialized Fabrication Equipment Group** (in short: **S.F.E. Group**) was founded in 2019 after the merger of three world leading OEM's in the field of pipe fabrication tooling and machinery: B&B Pipe and Industrial Tools LLC (USA), Mathey Dearman Inc. (USA) and TAG Pipe Equipment Specialists (UK). In a time span of 5 years, another 4 renowned and market leading companies were acquired and added to the **S.F.E. Group** portfolio: Axxair (France, 2022), Magnatech (USA, 2023), Climax (USA, 2023) and Sumner (USA, 2025).

The vision and philosophy of the **S.F.E. Group** is to offer globally a comprehensive innovative and cost-effective range of specialized fabrication, welding and machining equipment and derived rental solutions, for a wide range of applications within all critical industries, while optimizing performance, efficiency and safety.

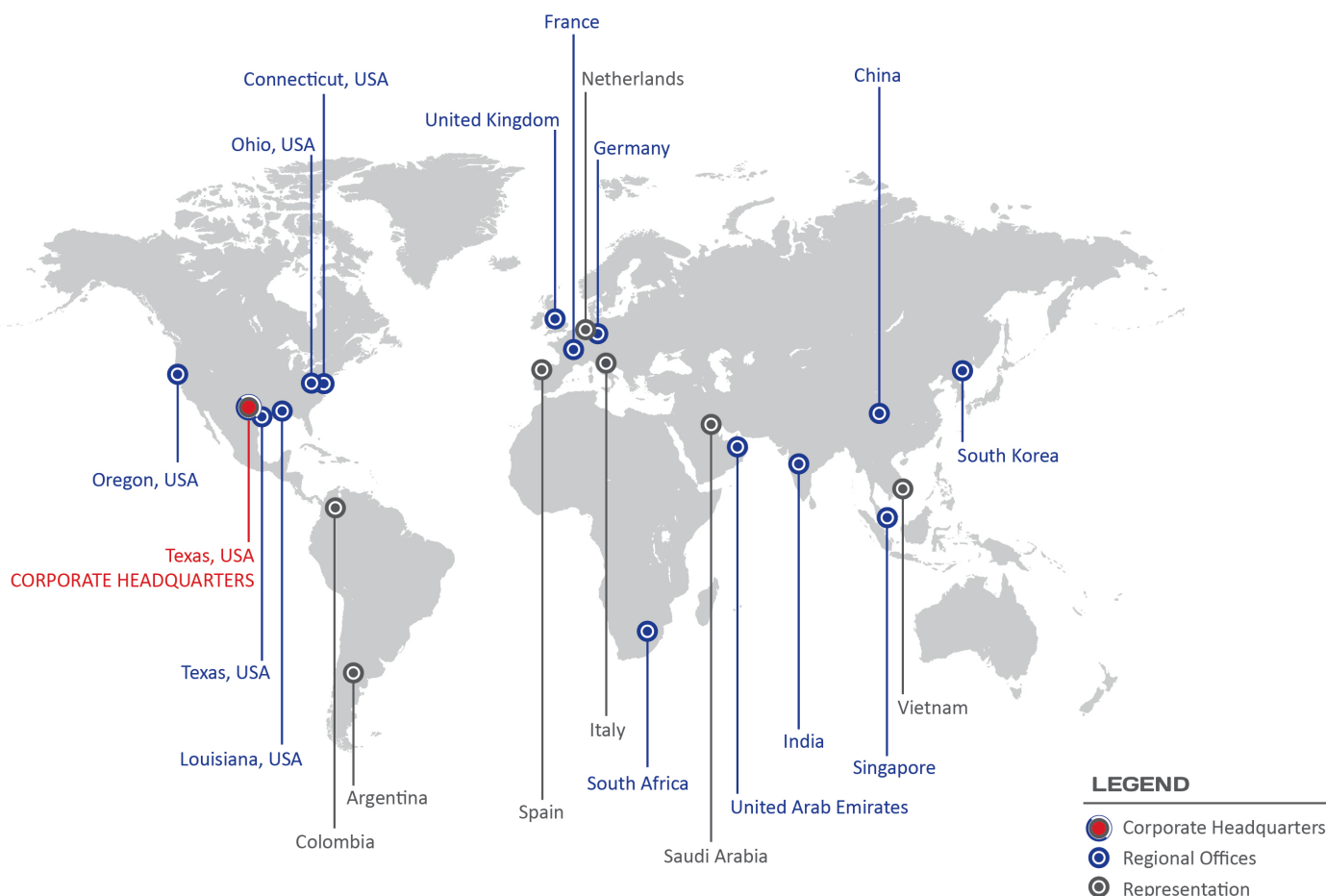
Leveraging over 200 years of combined experience in engineering, manufacturing, and field applications, the **S.F.E. Group** is committed to driving innovation. Through continuous product development and strategic acquisitions, the **S.F.E. Group** is actively growing its portfolio and expanding its global presence to meet the demands of industries around the world. Currently, the **S.F.E. Group** consists of 12 complimentary brands, each supporting the others in delivering cutting-edge solutions.

With offices and warehousing on 5 continents, 400+ employees and more than 500 partnerships and distributors worldwide, **S.F.E. Group** prides itself on consistently offering the highest standards of both product quality and service locally to all its customers.

S.F.E. Group looks forward to welcoming you into its global network as a partner, distributor or end user customer and remains at your disposal at any time.

Contact Americas: sales@sfe-brands.com
 Contact International: sales-int@sfe-brands.com

S.F.E. GROUP GLOBAL PRESENCE





Backed by nearly 25 years of development, S.F.E. Group is proud to present its brand dedicated to pipe purging products, applications and solutions: **Pipe Purge Masters (PPM)**. With the **PPM brand**, the S.F.E. Group aims to not only emphasize its focus on pipe purging products but also meet the growing demand for on-site pipe purging equipment across the industries it already serves. Additionally, PPM products integrate seamlessly with other S.F.E. Group offerings, such as the orbital welding solutions provided by the **AXXAIR** brand.

As an OEM, S.F.E. Group prides itself on being renowned for its innovations, ground-breaking developments and creative designs within the **Pipe Purge Masters'** product range. Leveraging its engineering expertise, customer-centric approach, and flexibility, the PPM brand delivers innovative pipe purging solutions tailored to meet the specific needs of customer projects, while also addressing the demands of ever-evolving industries.

The **PPM brand** portfolio consists of a comprehensive range of pipe purging equipment: inflatable pipe purge bag systems, welding purge plugs, formed double seal purge systems, purge oxygen monitors, inflatable as well as mechanical pipe stoppers and accessories.

Pipe Purge Masters' products are available from the international S.F.E. Group locations on 5 continents, as well as from S.F.E. Group's extensive and continuously expanding global network of partners and can be consulted on the dedicated website www.PURGEMASTERS.com.

INDUSTRIES SERVED



BIOTECHNOLOGY & LIFE SCIENCES



CHEMISTRY



FOOD & BEVERAGE



MANUFACTURING & FABRICATION



PHARMACEUTICAL

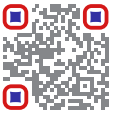


UTILITIES

OUR BRANDS



Our group policy is one of continuous improvements and acquisitions. Products and data tables are subject to change and may vary from those illustrated. Copyright © 2025 Specialized Fabrication Equipment Group, All rights reserved.



Sizes: 3/4" - 12" / 16 - 320 mm

Purge pipes fast with minimal gas usage

PPM also manufactures the silicone Double Seal purging system that has been designed to further reduce both inert gas use and purging time. This system uses silicon discs to form an airtight seal, reducing purge times and gas usage for maximum efficiency.

There are 2 styles of silicon Double Seal systems available:

- the Gas Finger system is designed for small pipes and tubes from 3/4" - 1.5" / 16 - 38 mm
- the Double Seal system is made for pipes from 3/4" - 12" / 16 - 320 mm



FEATURES AND ADVANTAGES

- Extremely short purge times resulting in valuable cost savings
- Typical purge times of less than 2 minutes (e.g. an 8" pipe will purge to below 0.01% oxygen in less than 2 minutes)
- High quality silicon sealing discs that prevent them tilting or falling over inside the pipe
- Guaranteed gas tight seal
- UV and temperature resistant up to 330°C (626°F) continuously or 450°C (842°F) for short periods
- Suitable for purging pipes, elbows and fittings
- The silicon seal units can be separated and used as a gas finger and pipe stopper respectively
- Fully interchangeable and individually exchangeable system, reducing cost of ownership



Available as a kit in 3 sizes:
 DSK16-165 (16 - 165 mm i/d)
 DSK16-220 (16 - 220 mm i/d)
 DSK16-320* (16 - 320 mm i/d)
 * Contains two cases

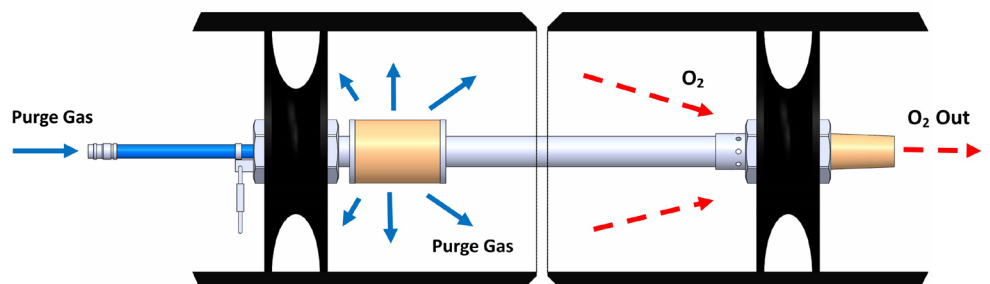
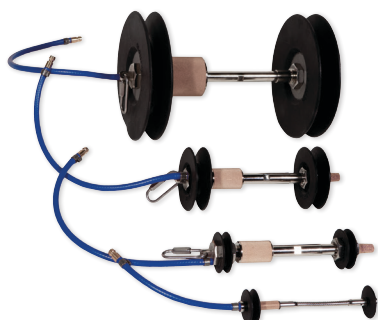
HOW IT WORKS

The gas inlet and outlet are provided with twin sealing discs separated by a flexible, rigid or a spring-type tube. The design guarantees that at least one disc will always remain tight to the pipe wall creating a 100% seal. The discs are UV and temperature-resistant up to 330°C (626°F) continuously or up to 450°C (842°F) for short periods. The gas is diffused into the chamber via the built-in centred diffuser and exits through the exhaust holes in the secondary twin disc unit.

This extremely short process of gas diffusion provides an equal gas flow and prevents any gas turbulence behind the weld, thereby minimising the risk of oxygen re-entering the welding chamber.

Besides the very short purging time, the double seal system also offers the possibility to cover various nominal pipe diameters by one pair of seals enabling highly economic use of the device. The double seal system can be purchased individually or in kit form for a range of pipe diameters.

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DOUBLE SEAL KITS SIZING AND SPECIFICATION - RECOMMENDED

PART NO.	DESCRIPTION	PIPE I/D RANGE		WEIGHT (LBS / KG)		CONNECTOR LENGTH
DSK16-165	Double Seal Kit - complete kit 16 - 165 mm i/d	0.62 - 6.49"	16 - 165 mm	24 lbs	11.00 kg	Variable - check kit list
DSK16-220	Double Seal Kit - complete kit 16 - 220 mm i/d	0.62 - 8.66"	16 - 220 mm	33 lbs	15.00 kg	Variable - check kit list
DSK16-320	Double Seal Kit - complete kit 16 - 320 mm i/d	0.62 - 12.59"	16 - 320 mm	42 lbs	19.00 kg	Variable - check kit list

DOUBLE SEAL GAS FINGERS SIZING AND SPECIFICATION

PART NO.	DESCRIPTION	PIPE I/D RANGE		WEIGHT (LBS / KG)		CONNECTOR LENGTH
DSF16-19	Double Seal Gas Finger 16 - 19 mm i/d	0.62 - 0.74"	16 - 19 mm	0.5 lbs	0.20 kg	n/a
DSF19-24	Double Seal Gas Finger 19 - 24 mm i/d	0.74 - 0.94"	19 - 24 mm	0.5 lbs	0.20 kg	n/a
DSF24-29	Double Seal Gas Finger 24 - 29 mm i/d	0.94 - 1.14"	24 - 29 mm	0.5 lbs	0.20 kg	n/a
DSF29-34	Double Seal Gas Finger 29 - 34 mm i/d	1.14 - 1.33"	29 - 34 mm	0.6 lbs	0.30 kg	n/a
DSF34-38	Double Seal Gas Finger 34 - 38 mm i/d	1.33 - 1.49"	34 - 38 mm	0.6 lbs	0.30 kg	n/a

DOUBLE SEAL PURGE SYSTEM SIZING AND SPECIFICATION

PART NO..	DESCRIPTION	PIPE I/D RANGE		WEIGHT (LBS / KG)		CONNECTOR LENGTH
DS16-19	Double Seal purge system - Flexible 16 - 19 mm i/d	0.62 - 0.74"	16 - 19 mm	1.5 lbs	0.65 kg	3.94" / 100 mm
DS19-24	Double Seal purge system - Flexible 19 - 24 mm i/d	0.74 - 0.94"	19 - 24 mm	1.5 lbs	0.70 kg	3.94" / 100 mm
DS24-29	Double Seal purge system - Flexible 24 - 29 mm i/d	0.94 - 1.14"	24 - 29 mm	1.5 lbs	0.75 kg	3.94" / 100 mm
DS29-34	Double Seal purge system - Flexible 29 - 34 mm i/d	1.14 - 1.33"	29 - 34 mm	1.5 lbs	0.75 kg	3.94" / 100 mm
DS34-38	Double Seal purge system - Flexible 34 - 38 mm i/d	1.33 - 1.49"	34 - 38 mm	1.5 lbs	0.80 kg	3.94" / 100 mm

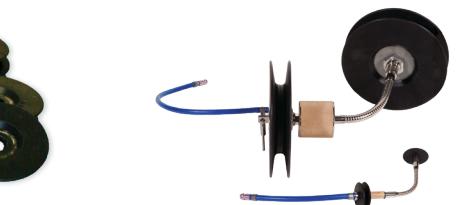
DS38-43 to DS290-320 are supplied with rigid connector as standard

Optional flexible connectors are available as accessory in two lengths FC120 (4.7" / 120 mm) / FC240 (9.4" / 240 mm)

DS38-43	Double Seal purge system - Rigid 38 - 43 mm i/d	1.49 - 1.69"	38 - 43 mm	1.5 lbs	0.85 kg	3.94" / 100 mm
DS43-48	Double Seal purge system - Rigid 43 - 48 mm i/d	1.69 - 1.88"	43 - 48 mm	2 lbs	0.90 kg	3.94" / 100 mm
DS47-53	Double Seal purge system - Rigid 47 - 53 mm i/d	1.85 - 2.08"	47 - 53 mm	2 lbs	0.95 kg	3.94" / 100 mm
DS52-58	Double Seal purge system - Rigid 52 - 58 mm i/d	2.04 - 2.28"	52 - 58 mm	2 lbs	1.00 kg	3.94" / 100 mm
DS64-72	Double Seal purge system - Rigid 64 - 72 mm i/d	2.51 - 2.83"	64 - 72 mm	2 lbs	1.10 kg	3.94" / 100 mm
DS78-86	Double Seal purge system - Rigid 78 - 86 mm i/d	3.07 - 3.38"	78 - 86 mm	3 lbs	1.20 kg	3.94" / 100 mm
DS90-101	Double Seal purge system - Rigid 90 - 101 mm i/d	3.54 - 3.97"	90 - 101 mm	3 lbs	1.30 kg	3.94" / 100 mm
DS100-112	Double Seal purge system - Rigid 100 - 112 mm i/d	3.93 - 4.40"	100 - 112 mm	3 lbs	1.40 kg	3.94" / 100 mm
DS120-130	Double Seal purge system - Rigid 120 - 130 mm i/d	4.72 - 5.11"	120 - 130 mm	3 lbs	1.50 kg	3.94" / 100 mm
DS124-138	Double Seal purge system - Rigid 124 - 138 mm i/d	4.88 - 5.43"	124 - 138 mm	3 lbs	1.60 kg	3.94" / 100 mm
DS144-155	Double Seal purge system - Rigid 144 - 155 mm i/d	5.66 - 6.10"	144 - 155 mm	4 lbs	1.70 kg	3.94" / 100 mm
DS150-165	Double Seal purge system - Rigid 150 - 165 mm i/d	5.90 - 6.49"	150 - 165 mm	4 lbs	1.80 kg	7.08" / 180 mm
DS197-206	Double Seal purge system - Rigid 197 - 206 mm i/d	7.75 - 8.11"	197 - 206 mm	4 lbs	2.00 kg	7.08" / 180 mm
DS209-220	Double Seal purge system - Rigid 209 - 220 mm i/d	8.22 - 8.66"	209 - 220 mm	5 lbs	2.20 kg	7.08" / 180 mm
DS246-257	Double Seal purge system - Rigid 246 - 257 mm i/d	9.68 - 10.11"	246 - 257 mm	5 lbs	2.40 kg	7.08" / 180 mm
DS260-280	Double Seal purge system - Rigid 260 - 280 mm i/d	10.23 - 11.02"	260 - 280 mm	5 lbs	2.60 kg	7.08" / 180 mm
DS290-320	Double Seal purge system - Rigid 290 - 320 mm i/d	11.41 - 12.59"	290 - 320 mm	6 lbs	3.00 kg	7.08" / 180 mm



Single Gas Finger for smaller pipe and tubes



Shown with flexible hose connection for purging elbows and fittings.

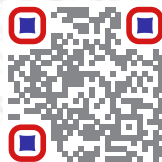


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