



# DOUBLE SEAL SYSTEMS

Sizes: 3/4 to 12" (16 to 320 mm)



## Purge pipes fast with minimal gas usage

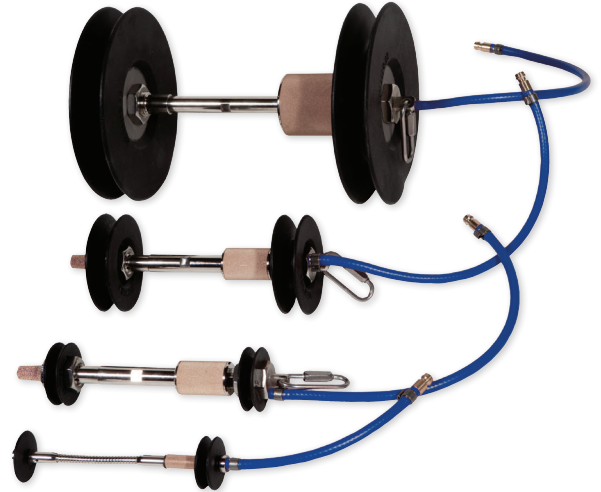
PPM also manufactures The Silicone Double Seal purging system that has been designed to further reduce both inert gas use and purging time. These systems use silicon discs to form an airtight seal, reducing purge times, and gas usage for maximum efficiency.

There are 2 styles of silicon double seal systems available:

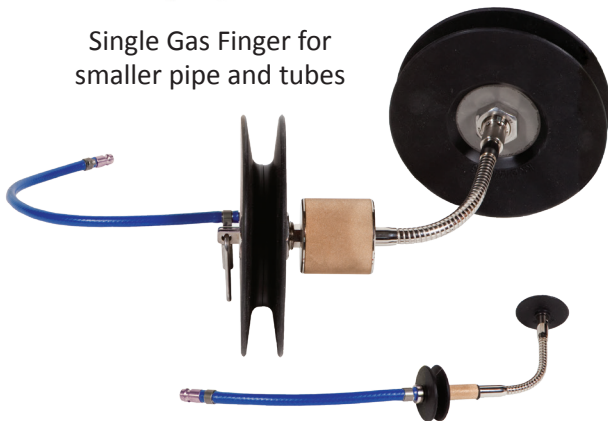
- The Gas Finger system is designed for small pipes and tubes from 16 - 38 mm i/d
- The Double Seal systems are made for pipes from 3/4 - 12" (16 - 320 mm)

## Features and Advantages

- 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 disks that prevent them tilting or falling over inside the pipe
- Guaranteed gas tight seal
- UV and temperature resistant up to 330°C continuously or 450°C 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



Single Gas Finger for smaller pipe and tubes



Shown with flexible hose connection for purging elbows and fittings.



Available as a kit (3 sizes)

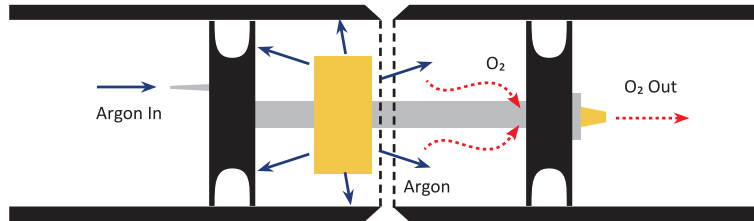
## How it works

The gas inlet and outlet are provided with twin sealing discs separated by a flexible, rigid or a spring-type tube. The design also 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 continuously or up to 450°C for short periods. The gas is diffused into the chamber via the built in sintered diffuser and exits through the exhaust holes in the secondary twin disc unit.

This process of gas diffusion provides an even flow of gas and prevents any gas turbulence behind the weld, thereby minimizing the risk of oxygen in the welding chamber while, at the same time, achieving an extremely short purge time. These extremely short purge times result in valuable cost savings in gas and time.

Besides the very short purging time, the Silicon Seal System also offers the possibility to cover various nominal pipe diameters by one pair of baffles 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.



## Sizing and Specification

PART NO.	DESCRIPTION	PIPE I/D RANGE	HOSE LENGTH	
DS16-19	Flex	0.62" - 0.74" / 16 - 19 mm	3.93" / 100 mm	
DS19-24	Flex	0.74" - 0.94" / 19 - 24 mm	3.93" / 100 mm	
DS24-29	Flex	0.94" - 1.14" / 24 - 29 mm	3.93" / 100 mm	
DS29-34	Flex	1.14" - 1.33" / 29 - 34 mm	3.93" / 100 mm	
DS34-38	Flex	1.33" - 1.49" / 34 - 38 mm	3.93" / 100 mm	
DS38-43	Flexible or Rigid	1.49" - 1.69" / 38 - 43 mm	4.72" - 2.36" / 120/60 mm	
DS43-48	Flexible or Rigid	1.69" - 1.88" / 43 - 48 mm	4.72" - 2.36" / 120/60 mm	
DS47-53	Flexible or Rigid	1.85" - 2.08" / 47 - 53 mm	4.72" - 2.36" / 120/60 mm	
DS52-58	Flexible or Rigid	2.04" - 2.28" / 52 - 58 mm	4.72" - 2.36" / 120/60 mm	
DS64-72	Flexible or Rigid	2.51" - 2.83" / 64 - 72 mm	4.72" - 2.36" / 120/60 mm	
DS78-86	Flexible or Rigid	3.07" - 3.38" / 78 - 86 mm	4.72" - 2.36" / 120/60 mm	
DS90-101	Flexible or Rigid	3.54" - 3.97" / 90 - 101 mm	5.90" - 3.93" / 150/100 mm	
DS100-112	Flexible or Rigid	3.93" - 4.40" / 100 - 112 mm	5.90" - 3.93" / 150/100 mm	
DS120-130	Flexible or Rigid	4.72" - 5.11" / 120 - 130 mm	5.90" - 3.93" / 150/100 mm	
DS124-138	Flexible or Rigid	4.88" - 5.43" / 124 - 138 mm	5.90" - 3.93" / 150/100 mm	
DS144-155	Flexible or Rigid	5.66" - 6.10" / 144 - 155 mm	5.90" - 3.93" / 150/100 mm	
DS150-165	Flexible or Rigid	5.90" - 6.49" / 150 - 165 mm	5.90" - 3.93" / 150/100 mm	
DS197-206	Flexible or Rigid	7.75" - 8.11" / 197 - 206 mm	5.90" - 3.93" / 150/100 mm	
DS209-220	Flexible or Rigid	8.22" - 8.66" / 209 - 220 mm	5.90" - 3.93" / 150/100 mm	
DS246-257	Flexible or Rigid	9.68" - 10.11" / 246 - 257 mm	5.90" - 3.93" / 150/100 mm	
DS260-280	Flexible or Rigid	10.23" - 11.02" / 260 - 280 mm	5.90" - 3.93" / 150/100 mm	
DS290-320	Flexible or Rigid	11.41" - 12.59" / 290 - 320 mm	5.90" - 3.93" / 150/100 mm	
DSK16-165	Complete Kit	0.62" - 6.49" / 16 - 165 mm	4.72" - 2.36" / 120/60 mm	5.90" - 3.93" / 150/100 mm
DSK16-220	Complete Kit	0.62" - 8.66" / 16 - 220 mm	4.72" - 2.36" / 120/60 mm	5.90" - 3.93" / 150/100 mm
DSK16-320	Complete Kit	0.62" - 12.59" / 16 - 320 mm	4.72" - 2.36" / 120/60 mm	5.90" - 3.93" / 150/100 mm