

PPM

PIPE PURGE MASTERS

PIPE STOPPERS



Expandable test plugs for purging and general pipe blocking

Pipe stoppers (or drain plugs) are used to temporarily seal the end of a pipe or opening for many different testing applications. Pipe stoppers are mainly used to seal off from water, gases and foreign objects in newly laid pipes, or pipework systems that are under repair.

PPM's range of pipe stoppers is available in a number of different styles to suit many applications for pipe sizes from 1½ - 72" (38 mm - 1,829 mm). Special pipe stoppers are also available for pressure testing.

How it works

The pipe stopper consists of a central spindle/shaft on which two plates are fitted with a natural rubber tyre (ring) between them. A wing nut on the shaft moves the two plates together, compressing the tyre and making the seal in the pipe. These stoppers can also be supplied with a hollow shaft version for screwing on standard hose connections or for using fixed or free nipple caps.

Expandable pipe stoppers are available in three different types.

Nylon plugs - 1½ - 6" (38 mm - 150 mm)

Nylon plugs are the standard drain plugs for testing leak tightness of foul water lines at the time of installation. Furthermore, the range of sizes make these plugs ideal for a number of other applications in the water and gas industries as well as applications in all other industries where pipes are used or where there are holes to be blocked.



Nylon expanding pipe stopper specification

PART NO.	PIPE SIZE INTERNAL NOMINAL DIAMETER		WILL FIT PIPES WITH INTERNAL DIAMETER		MINIMUM INSERTION INTO PIPE	OVERALL LENGTH	DIAMETER OF WATERWAY	MAXIMUM ALLOWABLE BACK PRESSURE	WEIGHT (LBS. / KG)	
NES38	1½"	38 mm	1.49 - 1.65"	38 - 42 mm	36 mm	58 mm	n/a solid	15 psi	1 lbs.	0.05 kg
NES50	2"	50 mm	1.90 - 2.44"	48.5 - 62.2 mm	36 mm	110 mm	0.5" bsp	15 psi	1 lbs.	0.05 kg
NES63	2½"	63 mm	2.55 - 3.03"	65 - 77 mm	36 mm	110 mm	0.5" bsp	10 psi	1 lbs.	0.10 kg
NES75	3"	75 mm	2.91 - 3.38"	74 - 86 mm	36 mm	110 mm	0.5" bsp	10 psi	1 lbs.	0.10 kg
NES88	3½"	88 mm	3.22 - 3.77"	82 - 96 mm	36 mm	110 mm	0.5" bsp	10 psi	1 lbs.	0.10 kg
NES100	4"	100 mm	3.74 - 4.13"	95 - 105 mm	36 mm	110 mm	0.5" bsp	5 psi	1 lbs.	0.15 kg
NES115	4½"	115 mm	4.48 - 4.88"	114 - 124 mm	36 mm	110 mm	0.5" bsp	5 psi	1 lbs.	0.20 kg
NES125	5"	125 mm	4.60 - 5.00"	117 - 127 mm	40 mm	110 mm	0.5" bsp	5 psi	1 lbs.	0.20 kg
NES150	6"	150 mm	5.74 - 6.10"	146 - 155 mm	42 mm	110 mm	0.5" bsp	5 psi	1 lbs.	0.25 kg

All plugs conform to British Standards BS8005 for low pressure testing and sealing of pipes.

Aluminium plugs - 1½ - 24" (40 mm - 600 mm)

To complement the range of nylon expanding plugs, we offer all sizes of aluminium plugs. These are provided in sizes from 1½" (40 mm) upwards and are suitable for more heavy duty applications, heat resistant up to 90°. These plugs are typically used for general sealing of pipes and purging.



Aluminium expanding pipe stopper specification

PART NO.	PIPE SIZE INTERNAL NOMINAL DIAMETER		WILL FIT PIPES WITH INTERNAL DIAMETER		MINIMUM INSERTION INTO PIPE	OVERALL LENGTH	DIAMETER OF WATERWAY	MAXIMUM ALLOWABLE BACK PRESSURE	WEIGHT (LBS. / KG)	
AES1.5	1½"	40 mm	1.49 - 1.96"	38 - 50 mm	45 mm	94 mm	½"	30 psi	1 lbs.	0.17 kg
AES2	2"	50 mm	1.92 - 2.44"	49 - 62 mm	43 mm	90 mm	½"	30 psi	1 lbs.	0.22 kg
AES2.5	2½"	65 mm	2.44 - 3.03"	62 - 77 mm	43 mm	92 mm	½"	30 psi	1 lbs.	0.27 kg
AES3	3"	75 mm	2.87 - 3.50"	73 - 89 mm	43 mm	94 mm	½"	20 psi	1 lbs.	0.31 kg
AES3.5	3½"	90 mm	3.30 - 4.05"	84 - 103 mm	53 mm	96 mm	½"	15 psi	1 lbs.	0.36 kg
AES4	4"	100 mm	3.70 - 4.33"	94 - 110 mm	47 mm	94 mm	½"	10 psi	1 lbs.	0.36 kg
AES4.5	4½"	114 mm	4.40 - 5.11"	112 - 130 mm	56 mm	140 mm	½"	10 psi	1 lbs.	0.47 kg
AES5	5"	125 mm	4.92 - 5.59"	125 - 142 mm	60 mm	95 mm	½"	10 psi	1 lbs.	0.79 kg
AES6	6"	150 mm	5.74 - 6.61"	146 - 168 mm	48 mm	96 mm	½"	10 psi	1 lbs.	0.70 kg
AES7	7"	175 mm	6.88 - 7.87"	175 - 200 mm	64 mm	100 mm	1"	7 psi	4 lbs.	1.92 kg
AES8	8"	200 mm	7.59 - 8.66"	193 - 220 mm	64 mm	100 mm	1"	7 psi	3 lbs.	1.59 kg
AES9	9"	225 mm	8.66 - 9.44"	220 - 240 mm	64 mm	170 mm	1"	7 psi	4 lbs.	2.06 kg
AES10	10"	250 mm	9.64 - 10.62"	245 - 270 mm	73 mm	178 mm	1"	7 psi	5 lbs.	2.52 kg
AES11	11"	275 mm	10.78 - 12.91"	274 - 328 mm	100 mm	200 mm	1"	7 psi	7 lbs.	3.45 kg
AES12	12"	300 mm	11.61 - 12.79"	295 - 325 mm	77 mm	200 mm	1"	7 psi	7 lbs.	3.42 kg
AES13	13"	325 mm	12.79 - 14.17"	325 - 360 mm	120 mm	230 mm	1"	5 psi	10 lbs.	4.75 kg
AES14	14"	350 mm	13.77 - 15.15"	350 - 385 mm	110 mm	215 mm	1"	5 psi	15 lbs.	6.95 kg
AES15	15"	375 mm	14.56 - 16.14"	370 - 410 mm	110 mm	225 mm	1"	5 psi	11 lbs.	5.35 kg
AES16	16"	400 mm	15.35 - 17.12"	390 - 435 mm	110 mm	225 mm	1"	5 psi	13 lbs.	5.90 kg
AES18	18"	450 mm	17.51 - 19.48"	445 - 495 mm	110 mm	225 mm	2"	5 psi	19 lbs.	8.75 kg
AES20	20"	500 mm	19.48 - 21.65"	495 - 550 mm	145 mm	255 mm	2"	5 psi	24 lbs.	11.3 kg
AES21	21"	525 mm	19.48 - 21.65"	495 - 550 mm	145 mm	255 mm	2"	3 psi	24 lbs.	11.3 kg
AES24	24"	600 mm	21.65 - 25.59"	595 - 650 mm	145 mm	255 mm	2"	3 psi	34 lbs.	15.85 kg

All plugs conform to British Standards BS8005 for low pressure testing and sealing of pipes.

Steel plugs - 1½ - 36" (40 mm - 900 mm)

(Larger sizes available upon request)

PPM also manufactures a range of steel plugs from 1½" (40 mm) upwards in diameter. These plugs are typically suitable for more heavy duty applications, heat resistant up to 90°. These plugs are typically used for general sealing of pipes and purging.



**Steel
multi-lock
stopper**

Steel expanding pipe stopper specification

PART NO.	PIPE SIZE INTERNAL NOMINAL DIAMETER		WILL FIT PIPES WITH INTERNAL DIAMETER		MINIMUM INSERTION INTO PIPE	OVERALL LENGTH	DIAMETER OF WATERWAY	MAXIMUM ALLOWABLE BACK PRESSURE	WEIGHT (LBS. / KG)	
SES1.5	1½"	40 mm	1.45 - 1.96"	37 - 50 mm	31 mm	81.5 mm	½"	30 psi	1 lbs.	0.16 kg
SES2	2"	50 mm	1.96 - 2.40"	50 - 61 mm	32.7 mm	82.8 mm	½"	30 psi	1 lbs.	0.18 kg
SES2.5	2½"	65 mm	2.40 - 2.95"	61 - 75 mm	33.2 mm	80.5 mm	½"	30 psi	1 lbs.	0.26 kg
SES3	3"	75 mm	2.87 - 3.34"	73 - 85 mm	34 mm	80.5 mm	½"	20 psi	1 lbs.	0.28 kg
SES3.5	3½"	89 mm	3.30 - 3.93"	84 - 100 mm	41 mm	81 mm	½"	15 psi	1 lbs.	0.36 kg
SES4	4"	100 mm	3.70 - 4.25"	94 - 108 mm	37.5 mm	83.3 mm	½"	10 psi	1 lbs.	0.41 kg
SES4.5	4½"	114 mm	4.33 - 4.92"	110 - 125 mm	40 mm	83.3 mm	½"	10 psi	1 lbs.	0.58 kg
SES5	5"	125 mm	4.88 - 5.47"	124 - 139 mm	37 mm	83.3 mm	½"	10 psi	1 lbs.	0.60 kg
SES6	6"	150 mm	5.90 - 6.29"	150 - 160 mm	39.7 mm	83.3 mm	½"	10 psi	2 lbs.	0.75 kg
SES7	7"	175 mm	6.88 - 7.87"	175 - 200 mm	46 mm	130 mm	1"	7 psi	3 lbs.	1.56 kg
SES8	8"	200 mm	7.67 - 8.46"	195 - 215 mm	37 mm	130 mm	1"	7 psi	3 lbs.	1.47 kg
SES9	9"	225 mm	8.26 - 9.05"	210 - 230 mm	58 mm	150 mm	1"	7 psi	4 lbs.	1.93 kg
SES10	10"	250 mm	9.64 - 10.23"	245 - 260 mm	55 mm	150 mm	1"	7 psi	6 lbs.	2.55 kg
SES12	12"	300 mm	11.65 - 12.59"	296 - 320 mm	85 mm	150 mm	1"	7 psi	8 lbs.	3.72 kg
SES14	14"	350 mm	13.38 - 15.15"	340 - 385 mm	85 mm	210 mm	1"	5 psi	14 lbs.	6.54 kg
SES15	15"	375 mm	14.56 - 16.33"	370 - 415 mm	100 mm	210 mm	1"	5 psi	15 lbs.	7.00 kg
SES16	16"	400 mm	15.35 - 16.92"	390 - 430 mm	95 mm	210 mm	1"	5 psi	19 lbs.	8.45 kg
SES18	18"	450 mm	17.63 - 19.48"	448 - 495 mm	100 mm	220 mm	1"	5 psi	23 lbs.	10.6 kg
BELOW STOPPERS ARE MULTI-LOCK										
SES20	20"	500 mm	19.29 - 20.86"	490 - 530 mm	95 mm	126 mm	2"	5 psi	23 lbs.	10.38 kg
SES21	21"	525 mm	20.27 - 21.85"	515 - 555 mm	95 mm	126 mm	2"	3 psi	25 lbs.	11.28 kg
SES24	24"	600 mm	23.22 - 24.80"	590 - 630 mm	95 mm	126 mm	2"	3 psi	34 lbs.	15.57 kg
SES28	28"	700 mm	27.16 - 28.74"	690 - 730 mm	95 mm	126 mm	2"	3 psi	44 lbs.	19.90 kg
SES30	30"	750 mm	29.13 - 30.70"	740 - 780 mm	95 mm	126 mm	2"	3 psi	55 lbs.	25.09 kg
SES32	32"	800 mm	31.10 - 32.67"	790 - 830 mm	95 mm	125 mm	2"	3 psi	64 lbs.	28.90 kg
SES36	36"	900 mm	35.03 - 36.61"	890 - 930 mm	95 mm	126 mm	2"	3 psi	77 lbs.	35.08 kg

(Larger sizes available upon request)

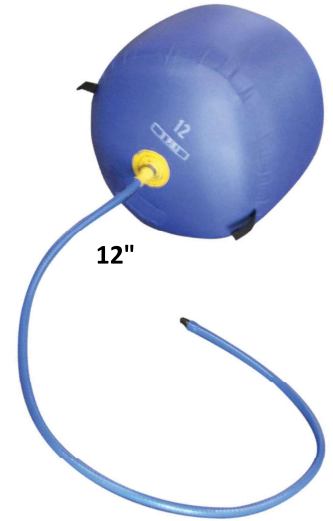
All plugs conform to British Standards BS8005 for low pressure testing and sealing of pipes.

Single inflatable dams for blocking and testing

PPM offers a range of inflatable stoppers in various shapes and sizes, suitable for many applications. Made from a natural rubber bladder covered in waterproof polyurethane coated nylon to prevent friction and static electricity build up.

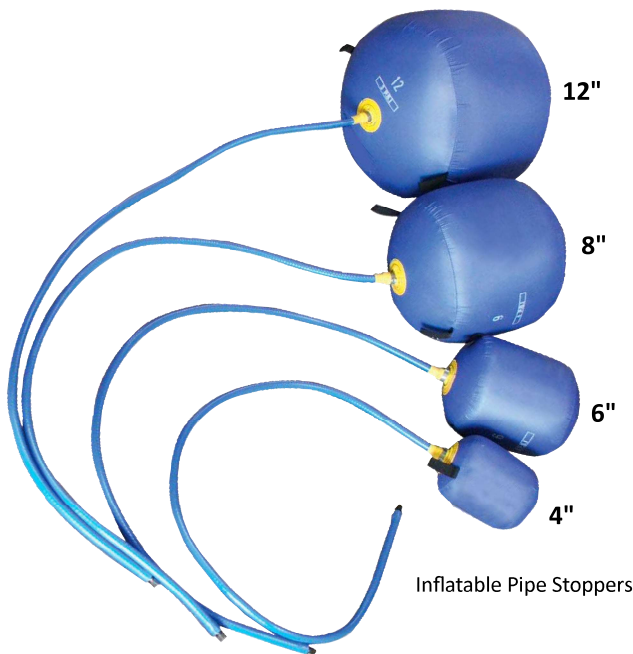
There are six different types available:

- **Cylindrical** - this stopper is generally used for blocking pipes where access is restricted
- **Spherical** - this stopper has less contact area than cylindrical stoppers, and is most suited to applications where access is further limited. Due to its shape the spherical inflatable stopper can be used at any angle
- **Square / Rectangular** - this stopper has a variety of applications, including in air conditioning ducting and venting
- **Doughnut** - this stopper requires minimal space and is perfectly suited to larger diameter pipes as there is less inflation required
- **Sausage** - this stopper has more contact area between the stopper and the pipe wall enabling it to hold back more pressure
- **Heat Resistant** - this stopper is made of a specially designed Kevlar and Nomex mix material to withstand temperatures up to 500°C (932°F) for applications involving higher temperatures such as pre heating



Holdback pressure - unsupported back pressure is 20% of the inflation pressure

Each inflatable stopper comes with an inflation hose fitted with a schrader valve enabling inflation with a standard airline, bicycle or foot pump.



Inflatable Pipe Stoppers



PPM's inflatable stoppers are supplied as standard with no through tube. Through tubes can be supplied on request at extra cost when the stoppers are required for weld purging applications. When deflated, the inflatable stoppers can be inserted and withdrawn with ease when access is restricted.

Sizing and specification

PART NO	DESCRIPTION	NOMINAL PIPE SIZE		INTERNAL DIAMETER RANGE (I/D)		WEIGHT (LBS. / KG)		INFLATION PRESSURE
IPS2	2" Inflatable Pipe Stopper	2"	50 mm	1.77" - 2.16"	45 mm - 55 mm	0.74 lbs.	0.34 kg	10 psi
IPS3	3" Inflatable Pipe Stopper	3"	75 mm	2.75" - 3.14"	70 mm - 80 mm	0.74 lbs.	0.34 kg	10 psi
IPS4	4" Inflatable Pipe Stopper	4"	100 mm	3.74" - 4.13"	95 mm - 105 mm	0.74 lbs.	0.34 kg	10 psi
IPS5	5" Inflatable Pipe Stopper	5"	125 mm	4.72" - 5.11"	120 mm - 130 mm	0.83 lbs.	0.38 kg	10 psi
IPS6	6" Inflatable Pipe Stopper	6"	150 mm	5.70" - 6.10"	145 mm - 155 mm	0.83 lbs.	0.38 kg	6 psi
IPS7	7" Inflatable Pipe Stopper	7"	175 mm	6.69" - 7.08"	170 mm - 180 mm	1.54 lbs.	0.70 kg	6 psi
IPS8	8" Inflatable Pipe Stopper	8"	200 mm	7.67" - 8.07"	195 mm - 205 mm	2 lbs.	0.90 kg	6 psi
IPS9	9" Inflatable Pipe Stopper	9"	225 mm	8.66" - 9.05"	220 mm - 230 mm	2 lbs.	0.95 kg	4 psi
IPS10	10" Inflatable Pipe Stopper	10"	250 mm	9.64" - 10.03"	245 mm - 255 mm	2 lbs.	1.00 kg	4 psi
IPS11	11" Inflatable Pipe Stopper	11"	275 mm	10.62" - 11.02"	270 mm - 280 mm	2 lbs.	1.05 kg	4 psi
IPS12	12" Inflatable Pipe Stopper	12"	300 mm	11.61" - 12.00"	295 mm - 305 mm	2 lbs.	1.10 kg	3 psi
IPS13	13" Inflatable Pipe Stopper	13"	325 mm	12.59" - 12.99"	320 mm - 330 mm	3 lbs.	1.20 kg	3 psi
IPS14	14" Inflatable Pipe Stopper	14"	350 mm	13.58" - 13.97"	345 mm - 355 mm	3 lbs.	1.30 kg	3 psi
IPS15	15" Inflatable Pipe Stopper	15"	375 mm	14.56" - 14.96"	370 mm - 380 mm	3 lbs.	1.50 kg	3 psi
IPS16	16" Inflatable Pipe Stopper	16"	400 mm	15.55" - 15.94"	395 mm - 405 mm	4 lbs.	1.70 kg	3 psi
IPS17	17" Inflatable Pipe Stopper	17"	425 mm	16.53" - 16.92"	420 mm - 430 mm	4 lbs.	1.75 kg	3 psi
IPS18	18" Inflatable Pipe Stopper	18"	450 mm	17.51" - 17.91"	445 mm - 455 mm	4 lbs.	1.80 kg	2 psi
IPS19	19" Inflatable Pipe Stopper	19"	475 mm	18.50" - 18.89"	470 mm - 480 mm	4 lbs.	1.85 kg	2 psi
IPS20	20" Inflatable Pipe Stopper	20"	500 mm	19.48" - 19.88"	495 mm - 505 mm	4 lbs.	1.90 kg	2 psi
IPS21	21" Inflatable Pipe Stopper	21"	525 mm	20.47" - 20.86"	520 mm - 530 mm	5 lbs.	2.20 kg	2 psi
IPS22	22" Inflatable Pipe Stopper	22"	550 mm	21.45" - 21.85"	545 mm - 555 mm	5 lbs.	2.40 kg	2 psi
IPS24	24" Inflatable Pipe Stopper	24"	600 mm	23.42" - 23.81"	595 mm - 605 mm	5 lbs.	2.50 kg	2 psi
IPS28	28" Inflatable Pipe Stopper	28"	700 mm	27.36" - 27.75"	695 mm - 705 mm	5 lbs.	2.70 kg	2 psi
IPS30	30" Inflatable Pipe Stopper	30"	750 mm	29.33" - 29.72"	745 mm - 755 mm	6 lbs.	3.00 kg	2 psi
IPS32	32" Inflatable Pipe Stopper	32"	800 mm	31.29" - 31.69"	795 mm - 805 mm	7 lbs.	3.40 kg	1.5 psi
IPS34	34" Inflatable Pipe Stopper	34"	850 mm	33.26" - 33.66"	845 mm - 855 mm	7 lbs.	3.60 kg	1.5 psi
IPS36	36" Inflatable Pipe Stopper	36"	900 mm	35.23" - 35.62"	895 mm - 905 mm	8 lbs.	3.80 kg	1 psi
IPS42	42" Inflatable Pipe Stopper	42"	1,050 mm	41.34" - 41.73"	1,050 mm - 1,060 mm	11 lbs.	5.00 kg	0.5 psi
IPS44	44" Inflatable Pipe Stopper	44"	1,100 mm	43.11" - 43.50"	1,095 mm - 1,105 mm	12 lbs.	5.50 kg	0.5 psi
IPS48	48" Inflatable Pipe Stopper	48"	1,200 mm	47.04" - 47.44"	1,195 mm - 1,205 mm	13 lbs.	6.00 kg	0.5 psi
IPS54	54" Inflatable Pipe Stopper	54"	1,350 mm	53.35" - 53.74"	1,355 mm - 1,365 mm	17 lbs.	7.50 kg	0.5 psi
IPS60	60" Inflatable Pipe Stopper	60"	1,500 mm	58.85" - 59.25"	1,495 mm - 1,505 mm	19 lbs.	8.50 kg	0.5 psi
IPS72	72" Inflatable Pipe Stopper	72"	1,800 mm	71.45" - 71.85"	1,815 mm - 1,825 mm	24 lbs.	11.00 kg	0.5 psi

**Pipe stoppers are supplied with Schrader valve
(Larger sizes available upon request with 10 mm / 0.39" expansion range)**