

## 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)	
	Inches	mm	Min	Max					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.

# NOTES

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