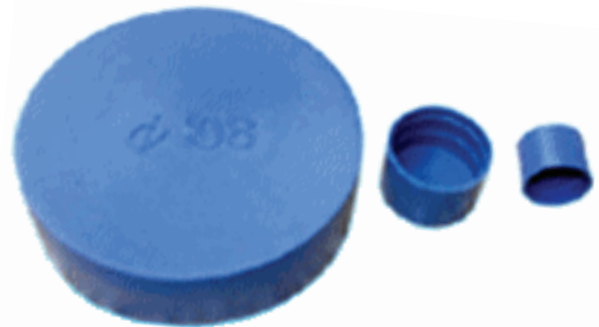


# External Pipe Cap, EPC-series

Protect the pipe from dust, oxidizing, foreign particles entry, weather and environmental impact

Material : Low-density polyethylene, LDPE  
 Colour : Blue, Red, Orange, Yellow, Black  
 Size : 1/2" to 48" , other sizes on special request

NPS Size	Pipe OD / Cap ID	Part No.
1/2"	Φ 21.3 mm	EPC-ALL-0.5
3/4"	Φ 26.7 mm	EPC-ALL-0.75
1"	Φ 33.4 mm	EPC-ALL-1
1 1/4"	Φ 42.2 mm	EPC-ALL-1.25
1 1/2"	Φ 48.3 mm	EPC-ALL-1.5
2"	Φ 60.3 mm	EPC-ALL-2
2 1/2"	Φ 73 mm	EPC-ALL-2.5
3"	Φ 88.9 mm	EPC-ALL-3
4"	Φ 114.3 mm	EPC-ALL-4
5"	Φ 141.3 mm	EPC-ALL-5
6"	Φ 168.3 mm	EPC-ALL-6
8"	Φ 219.1 mm	EPC-ALL-8
10"	Φ 273 mm	EPC-ALL-10
12"	Φ 323.9 mm	EPC-ALL-12
14"	Φ 355.6 mm	EPC-ALL-14
16"	Φ 406.4 mm	EPC-ALL-16
18"	Φ 457.2 mm	EPC-ALL-18
20"	Φ 508 mm	EPC-ALL-20
22"	Φ 559 mm	EPC-ALL-22
24"	Φ 610 mm	EPC-ALL-24
26"	Φ 660 mm	EPC-ALL-26
28"	Φ 711 mm	EPC-ALL-28
30"	Φ 762 mm	EPC-ALL-30
32"	Φ 813 mm	EPC-ALL-32
36"	Φ 914 mm	EPC-ALL-36
40"	Φ 1016 mm	EPC-ALL-40
42"	Φ 1067 mm	EPC-ALL-42
44"	Φ 1118 mm	EPC-ALL-44
48"	Φ 1219 mm	EPC-ALL-48



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# Pipe Insert Plug, PI-series

Protect the pipe from dust, oxidizing, foreign particles entry, weather and environmental impact

Material : Low-density polyethylene, LDPE  
 Colour : Blue, Red, Orange, Yellow, Black  
 Size : 05" to 32" , other sizes on special request

NPS Size	For Pipe Schedule	Part No.
0.5"	SCH 5, 10, 30, 40, 80	PI-(schedule)-0.5"
0.75"	SCH 5, 10, 30, 40, 80	PI-(schedule)-0.75"
1"	SCH 5, 10, 30, 40, 80	PI-(schedule)-1"
1.25"	SCH 5, 10, 30, 40, 80	PI-(schedule)-1.25"
1.5"	SCH 5, 10, 30, 40, 80	PI-(schedule)-1.5"
2"	SCH 5, 10, 30, 40, 80	PI-(schedule)-2"
2.5"	SCH 5, 10, 30, 40, 80	PI-(schedule)-2.5"
3"	SCH 5, 10, 30, 40, 80	PI-(schedule)-3"
4"	SCH 5, 10, 30, 40, 80, 120	PI-(schedule)-4"
5"	SCH 5, 10, 30, 40, 80, 120	PI-(schedule)-5"
6"	SCH 5, 10, 30, 40, 80, 120	PI-(schedule)-6"
8"	SCH 5, 10, 20, 30, 40, 60, 80, 100, 120	PI-(schedule)-8"
10"	SCH 5, 10, 20, 30, 40, 60, 80, 100, 120	PI-(schedule)-10"
12"	SCH 5, 10, 20, 30, 40, 60, 80, 100, 120	PI-(schedule)-12"
14"	SCH 5, 10, 20, 30, 40, 60, 80, 100, 120	PI-(schedule)-14"
16"	SCH 5, 10, 20, 30, 40, 60, 80, 100, 120	PI-(schedule)-16"
18"	SCH 5, 10, 20, 30, 40, 60, 80, 100, 120	PI-(schedule)-18"
20"	SCH 5, 10, 20, 30, 40, 60, 80, 100, 120	PI-(schedule)-20"
22"	SCH 5, 10, 20, 30, 40, 60, 80, 100, 120	PI-(schedule)-22"
24"	SCH 5, 10, 20, 30, 40, 60, 80, 100, 120	PI-(schedule)-24"
26"	SCH 10, STD, 20XS	PI-(schedule)-26"
28"	SCH 10, STD, 20XS, 30	PI-(schedule)-28"
30"	SCH 5, 10, STD, 20XS, 30	PI-(schedule)-30"
32"	SCH 10, STD, 20XS, 30, 40	PI-(schedule)-32"



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# Flange Bore Insert, FBI-series

Protect the flange pipe from dust, oxidizing, foreign particles entry, weather and environmental impact

Material : Low-density polyethylene, LDPE  
Colour : Blue, Red, Orange, Yellow, Black  
Size : 1/2" to 28" , other sizes on special request  
Universal type, suitable for all flanges rating from 150# to 1500#

Flange Size	Flange Bore Diameter	Part No.
1/2"	Φ 15.7 mm	FBI-UNI-0.5"
3/4"	Φ 20.8 mm	FBI-UNI-0.75"
1"	Φ 26.7 mm	FBI-UNI-1"
1 1/4"	Φ 35 mm	FBI-UNI-1.25"
1 1/2"	Φ 40.9 mm	FBI-UNI-1.5"
2"	Φ 52.6 mm	FBI-UNI-2"
2 1/2"	Φ 62.7 mm	FBI-UNI-2.5"
3"	Φ 77.9 mm	FBI-UNI-3"
4"	Φ 102.3 mm	FBI-UNI-4"
5"	Φ 128.2 mm	FBI-UNI-5"
6"	Φ 154.1 mm	FBI-UNI-6"
8"	Φ 202.7 mm	FBI-UNI-8"
10"	Φ 254.5 mm	FBI-UNI-10"
12"	Φ 304.8 mm	FBI-UNI-12"
14"	Φ 336.6 mm	FBI-UNI-14"
16"	Φ 387.4 mm	FBI-UNI-16"
18"	Φ 438.2 mm	FBI-UNI-18"
20"	Φ 489 mm	FBI-UNI-20"
22"	Φ 539.8 mm	FBI-UNI-22"
24"	Φ 590.6 mm	FBI-UNI-24"
26"	Φ 660 mm	FBI-UNI-26"
28"	Φ 691.9 mm	FBI-UNI-28"



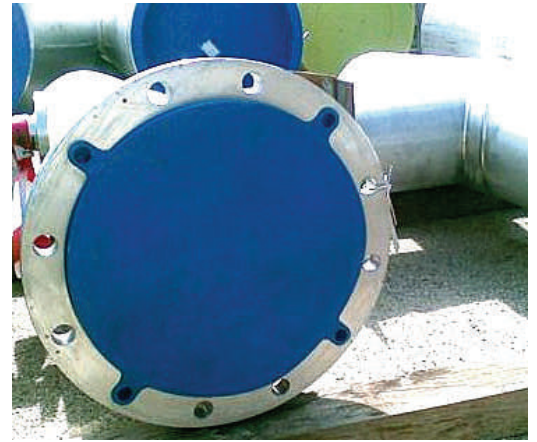
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# Flange Snap-On Protector, FSO-Series (150# or 300#)

Protect pipe and flange from dust, oxidizing, foreign particles entry, weather and environmental impact

Material : Low-density polyethylene, LDPE  
 Colour : Blue, Red, Orange, Yellow, Black  
 Size : 1/2" to 14" , other sizes on special request



## For Flange Rating ANSI 150#

Flange Size	Flange Rating	PCD of Bolt Holes	Part No.
0.5"	ANSI 150#	φ 60.45 mm	FSO-150#-0.5"
0.75"	ANSI 150#	φ 69.85 mm	FSO-150#-0.75"
1"	ANSI 150#	φ 79.3 mm	FSO-150#-1"
1.25"	ANSI 150#	φ 88.9 mm	FSO-150#-1.25"
1.5"	ANSI 150#	φ 98.6 mm	FSO-150#-1.5"
2"	ANSI 150#	φ 120.7 mm	FSO-150#-2"
2.5"	ANSI 150#	φ 139.7 mm	FSO-150#-2.5"
3"	ANSI 150#	φ 152.4 mm	FSO-150#-3"
4"	ANSI 150#	φ 190.5 mm	FSO-150#-4"
5"	ANSI 150#	φ 215.9 mm	FSO-150#-5"
6"	ANSI 150#	φ 241.3 mm	FSO-150#-6"
8"	ANSI 150#	φ 298.5 mm	FSO-150#-8"
10"	ANSI 150#	φ 362 mm	FSO-150#-10"
12"	ANSI 150#	φ 431.8 mm	FSO-150#-12"
14"	ANSI 150#	φ 476.3 mm	FSO-150#-14"

## For Flange Rating ANSI 300#

Flange Size	Flange Rating	PCD of Bolt Holes	Part No.
0.5"	ANSI 300#	φ 66.56 mm	FSO-300#-0.5"
0.75"	ANSI 300#	φ 82.6 mm	FSO-300#-0.75"
1"	ANSI 300#	φ 88.9 mm	FSO-300#-1"
1.25"	ANSI 300#	φ 98.6 mm	FSO-300#-1.25"
1.5"	ANSI 300#	φ 114.3 mm	FSO-300#-1.5"
2"	ANSI 300#	φ 127 mm	FSO-300#-2"
2.5"	ANSI 300#	φ 149.4 mm	FSO-300#-2.5"
3"	ANSI 300#	φ 168.2 mm	FSO-300#-3"
4"	ANSI 300#	φ 200.2 mm	FSO-300#-4"
5"	ANSI 300#	φ 235 mm	FSO-300#-5"
6"	ANSI 300#	φ 269.8 mm	FSO-300#-6"
8"	ANSI 300#	φ 330.2 mm	FSO-300#-8"
10"	ANSI 300#	φ 387.4 mm	FSO-300#-10"
12"	ANSI 300#	φ 450.9 mm	FSO-300#-12"
14"	ANSI 300#	φ 514.4 mm	FSO-300#-14"



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# Flange Snap-On Protector, FSO-Series (600#, 900# or 1500#)

Protect pipe and flange from dust, oxidizing, foreign particles entry, weather and environmental impact

Material : Low-density polyethylene, LDPE  
 Colour : Blue, Red, Orange, Yellow, Black  
 Size : 1/2" to 12" , other sizes on special request



## For Flange Rating ANSI 600#

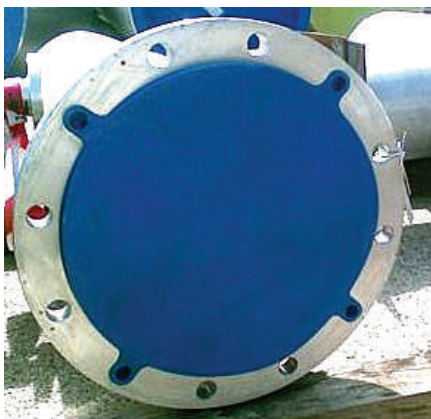
Flange Size	Flange Rating	PCD of Bolt Holes	Part No.
0.5"	ANSI 600#	Φ 66.55 mm	FSO-600#-0.5"
0.75"	ANSI 600#	Φ 82.6 mm	FSO-600#-0.75"
1"	ANSI 600#	Φ 88.9 mm	FSO-600#-1"
1.25"	ANSI 600#	Φ 98.6 mm	FSO-600#-1.25"
1.5"	ANSI 600#	Φ 114.3 mm	FSO-600#-1.5"
2"	ANSI 600#	Φ 127 mm	FSO-600#-2"
2.5"	ANSI 600#	Φ 149.4 mm	FSO-600#-2.5"
3"	ANSI 600#	Φ 168.2 mm	FSO-600#-3"
4"	ANSI 600#	Φ 215.9 mm	FSO-600#-4"
5"	ANSI 600#	Φ 266.7 mm	FSO-600#-5"
6"	ANSI 600#	Φ 292.1 mm	FSO-600#-6"
8"	ANSI 600#	Φ 349.3 mm	FSO-600#-8"
10"	ANSI 600#	Φ 431.8 mm	FSO-600#-10"
12"	ANSI 600#	Φ 489 mm	FSO-600#-12"

## For Flange Rating ANSI 900#

Flange Size	Flange Rating	PCD of Bolt Holes	Part No.
0.5"	ANSI 900#	Φ 82.6 mm	FSO-900#-0.5"
0.75"	ANSI 900#	Φ 88.9 mm	FSO-900#-0.75"
1"	ANSI 900#	Φ 101.6 mm	FSO-900#-1"
1.25"	ANSI 900#	Φ 111.2 mm	FSO-900#-1.25"
1.5"	ANSI 900#	Φ 124 mm	FSO-900#-1.5"
2"	ANSI 900#	Φ 165.1 mm	FSO-900#-2"
2.5"	ANSI 900#	Φ 190.5 mm	FSO-900#-2.5"
3"	ANSI 900#	Φ 190.5 mm	FSO-900#-3"
4"	ANSI 900#	Φ 235 mm	FSO-900#-4"
6"	ANSI 900#	Φ 317.5 mm	FSO-900#-6"

## For Flange Rating ANSI 1500#

Flange Size	Flange Rating	PCD of Bolt Holes	Part No.
0.5"	ANSI 1500#	Φ 82.6 mm	FSO-1500#-0.5"
0.75"	ANSI 1500#	Φ 88.9 mm	FSO-1500#-0.75"
1"	ANSI 1500#	Φ 101.6 mm	FSO-1500#-1"
1.25"	ANSI 1500#	Φ 111.2 mm	FSO-1500#-1.25"
1.5"	ANSI 1500#	Φ 124 mm	FSO-1500#-1.5"
2"	ANSI 1500#	Φ 165.1 mm	FSO-1500#-2"
2.5"	ANSI 1500#	Φ 190.5 mm	FSO-1500#-2.5"
3"	ANSI 1500#	Φ 203.25 mm	FSO-1500#-3"
4"	ANSI 1500#	Φ 241.3 mm	FSO-1500#-4"



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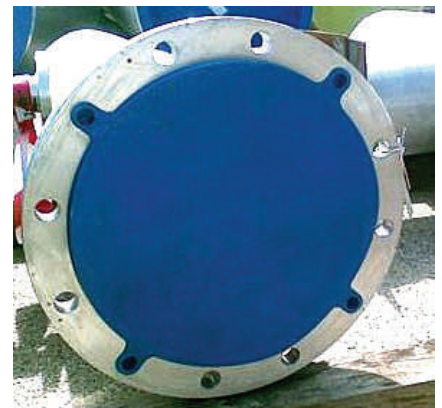
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# Flange Snap-On Protector, FSO-Series (PN10, PN16, PN25 or PN40)

Protect pipe and flange from dust, oxidizing, foreign particles entry, weather and environmental impact

- Material : Low-density polyethylene, LDPE  
 Colour : Blue, Red, Orange  
 Size : DN15 (1/2") to DN400 ( 16" ) , other sizes on special request  
 Flange Rating : PN10, 16, PN25 or PN40 (to be selected)

Size, DN	Size, Imperial	Flange Pressure Rating	Part No
DN 15	1/2"	PN10, PN16, PN25 or PN40	FSO-PNxx-15
DN 20	3/4"	PN10, PN16, PN25 or PN40	FSO-PNxx-20
DN 25	1"	PN10, PN16, PN25 or PN40	FSO-PNxx-25
DN 32	1-1/4"	PN10, PN16, PN25 or PN40	FSO-PNxx-32
DN 40	1-1/2"	PN10, PN16, PN25 or PN40	FSO-PNxx-40
DN 50	2"	PN10, PN16, PN25 or PN40	FSO-PNxx-50
DN 65	2-1/2"	PN10, PN16, PN25 or PN40	FSO-PNxx-65
DN 80	3"	PN10, PN16, PN25 or PN40	FSO-PNxx-80
DN 100	4"	PN10, PN16, PN25 or PN40	FSO-PNxx-100
DN 125	5"	PN10, PN16, PN25 or PN40	FSO-PNxx-125
DN 150	6"	PN10, PN16, PN25 or PN40	FSO-PNxx-150
DN 200	8"	PN10, PN16, PN25 or PN40	FSO-PNxx-200
DN 250	10"	PN10, PN16, PN25 or PN40	FSO-PNxx-250
DN 300	12"	PN10, PN16, PN25 or PN40	FSO-PNxx-300
DN 350	14"	PN10, PN16, PN25 or PN40	FSO-PNxx-350
DN 400	16"	PN10, PN16, PN25 or PN40	FSO-PNxx-400



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