

Wrap-Around High Performance Pipe Markers (B-689)

Stick it to tough surfaces in harsh environments

- Durable polyester plus over-laminate withstands extreme temps and conditions
- Self-adhesive wrap-around style conquers rusty, dirty, wet or rough pipes
- Arrows included on every marker for flow identification



Description:	over-laminated to strips. For pipes wi	ound High Performance Pipe Markers (B-689) are printed on durable polyester that is inated to protect the printed text and graphics, secured around the pipe with self adhesive tape or pipes with diameter sizes of 8" and greater, heavy duty nylon ties are supplied in place of esive tape strips for ease of installation.		
Use:		Performance Pipe Markers (B-689) a ese are greatly recommended for appl		
Compliance:	ASME/ANSI A13.1			
Standard Letter Colors:	Black or White			
Standard Background Colors:	Blue, Brown, Greer	n, Orange, Red, Gray, Purple, White, E	Black or Yellow	
Thickness (ASTM D 1593):	Total 0.007 in. (0.1	78mm.)		
Standard Sizes/Dimensions:	Style	Fits Pipe Outer Diameter	Length Color Field	Letter Height
	00	Less than .7" (18mm)	4" (102mm)	.5" (13mm)
	0	.7" - 1.3" (18mm - 33mm)	8" (203mm)	.5" (13mm)
	I	1.4" - 2.4" (36mm - 61mm)	8" (203mm)	.75" (19mm)
	IISM	2.5" - 4.875" (64mm - 124mm)	12" (305mm)	1.3" (33mm)
	II	5" - 7.875" (127mm - 200mm)	12" (305mm)	1.3" (33mm)
	IIIST	8"- 10" (203mm - 254mm)	24" (610mm)	2.5" (63.5mm)
	IVST	Over 10" (254mm)	32 " (813mm)	3.5" (89mm)
	HPHV (Carrier)	8" or larger (203mm)	24" (610mm)	2.5" (64mm)

Date:	/	/	Job:		
Contracto	or:				



## Wrap-Around High Performance Pipe Markers (B-689) (Continued)

Test Method Std. No. 191A):	nds up to 700 cycles. Substrate withst (-40°C to 120°C).  age expected outdoor life of product v		rcles.			
Test Method Std. No. 191A):	(-40°C to 120°C).  age expected outdoor life of product v		rcles.			
Service Temperature: -40°F to 248°F	age expected outdoor life of product v	vill dapand on usar				
		vill depend on user				
	arrang teeninques, and material color,	5-8 years (Average expected outdoor life of product will depend on user definition of failure, climactic conditions, mounting techniques, and material color).				
Chemical Resistance: Reagent	7 day Immersion	DipTest	RubTest			
30% Sulfurica	Acid NE	NE	NE			
10% Sulfurica		NE	NE			
30% HCL	NE	NE	NE			
10% HCL	NE	NE	NE			
50% NaOH	NE	NE	NE			
10% NaOH	NE	NE	NE			
10% NaCL	NE	NE	NE			
Methyl Ethyl I	Ketone F	NE	NE			
Acetone	F	NE	NE			
Methanol	F	NE	NE			
1,1,1,Trichlord	pethane F	NE	NE			
IPA (Isopropar	nol) NE	NE	NE			
ASTM #3 Oil	NE	NE	NE			
SAE 20 Oil	NE	NE	NE			
Mineral Spirits		NE	NE			
Diesel Fuel	NE	NE	NE			
Heptane	NE	NE	NE			
Toluene	NE	NE	NE			
Alconox	NE	NE	NE			
Kerosene	NE	NE	NE			
Bleach	NE	NE	NE			
Water	NE	NE	NE			
NE: No Effect F: F:	NE: No Effect F: Failed					
7 Day Immersion: Immersed in rea	Immersed in reagent for 7 days					
Dip Test: Five 10 minute	Five 10 minute dips in reagent with 30 minute recovery.					
Rub Test: Rubbed sample	Rubbed sample for one minute with swab soaked in reagent.					
Shelf Life: Indefinite wher	Indefinite when stored at 70°F (21°C) and 40% to 50% R.H.					