

Metallic Systems

SP Fitting Type M



Technical Characteristics

Conforms to BSI Kitemark KM-35161
Low voltage directive
Inherent Low Fire Hazard

Approvals and Standards



Degree of mechanical protection

High

Degree of protection

IP65 - with all [Adaptasteel](#) liquid resistant conduit in the series

UV protection

Very High

Fitting characteristics



Straight swivel fitting external male thread

Application

For insertion into threaded entries & knockouts using a locknut

Normal operating temperature range

Application	Min Temp	Max Temp
Static	- 50°C	+300°C
Dynamic	- 45°C	+250°C

For use with - Conduit series

Type [SP](#), [SN](#) & [LFH-SP](#)

Fire performance

Test Standard

Performance Rating

EN45545	ILFH
NFF16-101	ILFH
LUL-1085	ILFH
BS6855	ILFH
DIN 5510-2	ILFH



Testing data

Click or see page [5](#)

Type of material

Nickel Plated Brass

Image



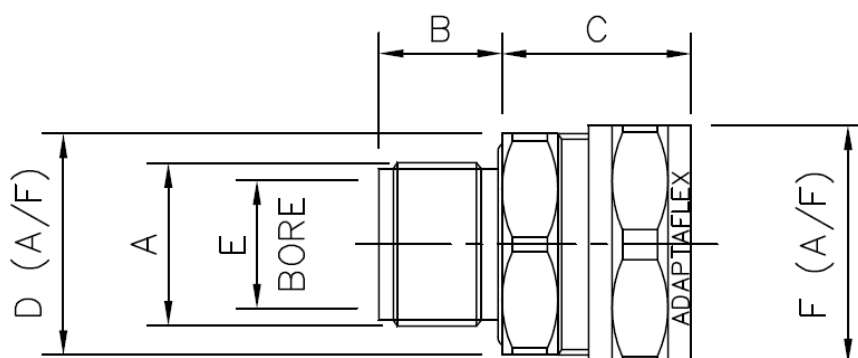
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Dimensional Data

Part No	Thread A	Nominal Dimensions (mm)				F (mm)
		B	C	D	E	
SP10/M16/M	M16 x 1.5	12.0	20	22	5.7	22.0
SP12/M16/M	M16 x 1.5	12.0	20	22	8.6	24.0
SP16/M16/M	M16 x 1.5	12.0	21	24	10.3	25.4
SP16/M20/M	M16 x 1.5	12.0	21	28	10.3	25.4
SP20/M20/M	M20 x 1.5	12.0	19	25.4	14.3	28.5
SP25/M25/M	M25 x 1.5	15.0	28	32	17.6	35.0
SP32/M32/M	M32 x 1.5	15.0	31	38	24.0	42.0
SP40/M40/M	M40 x 1.5	16.0	38	50	33.0	52.0
SP50/M50/M	M50 x 1.5	18.0	41	60	38.5	60.0
SP63/M63/M	M63 x 1.5	25.0	41	70	50.0	70.0



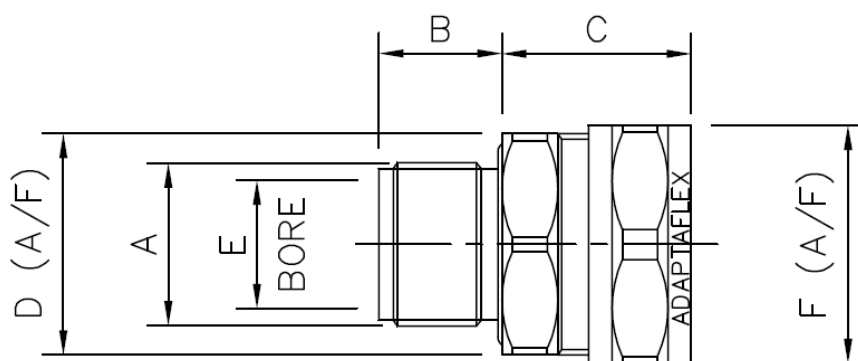
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Dimensional Data

Part No	Thread A	Nominal Dimensions (mm)				F (mm)
		B	C	D	E	
SP10/PG7/M	PG7	11.0	46	20	5.7	22.0
SP12/PG9/M	PG9	11.0	20	22	8.1	24.0
SP16/PG11/M	PG11	11.0	20	24	10.3	25.4
SP16/PG13/M	PG13.5	11.0	21	24	10.3	25.4
SP20/PG16/M	PG16	11.0	21	25.4	14.3	28.5
SP25/PG21/M	PG21	12.0	28	32	17.6	35.0
SP32/PG29/M	PG29	12.0	31	38	24.0	42.0
SP40/PG36/M	PG36	16.0	38	56	33.0	52.0
SP50/PG42/M	PG42	18.0	41	60	38.5	60.0
SP63/PG48/M	PG48	25.0	46	70	50.0	70.0



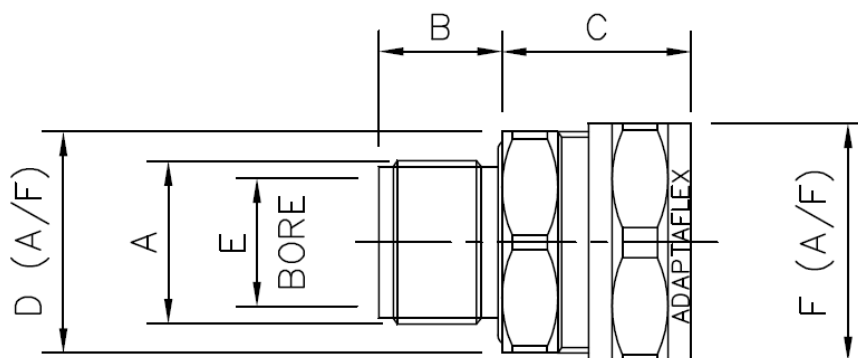
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Dimensional Data

Part No	Thread A	Nominal Dimensions (mm)				F (mm)
		B	C	D	E	
SP16/038/M	NPT 3/8"	11.0	21	24	10.3	24.4
SP20/050M	NPT 1/2"	15.0	19	25.4	14.3	28.5
SP25/075/M	NPT 3/4"	16.0	28	32	17.6	35.0
SP32/100/M	NPT 1"	19.0	31	38	24.0	42.0
SP40/125/M	NPT 1 1/14"	20.0	34	50	33.0	52.0
SP50/150/M	NPT 1 1/2"	21.0	41	60	38.5	60.0



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Chemical Resistance Chart

Key:	● Astm No.1	● Diesel oil	● Methyl Bromide	● Sulphur Dioxide (Gas)
	● Astm No.2	● Diethylamine	● MEK	● Sulphuric Acid (10%)
	● Astm No.3	● Ethanol	● Nitric Acid (10%)	● Sulphuric Acid (70%)
	● Acetic Acid (10%)	● Ether	● Nitric Acid (70%)	● Toluene
	● Acetone	● Ethylamine	● Oxalic Acid	● Transformer Oil
	● Aluminium Chloride	● Ethylene Glycol	● Ozone (Gas)	● 1,1,1-Trichloroethane
	● Aniline	● Ethyl Ethanoate	● Paraffin oil	● Trichloroethylene
	● Benzaldehyde	● Freon 32	● Petrol	● Turpentine
	● Benzene	● Hydrochloric Acid (10%)	● Phenol	● Vegetable Oil
	● Carbon tetrachloride	● Hydrochloric Acid (36%)	● Sea Water	● Vinyl Acetate
	● Chlorine water	● Hydrogen Peroxide (35%)	● Silver Nitrate	● Water
	● Chloroform	● Hydrogen Peroxide (87%)	● Skydrol	● White Spirit
	● Citric Acid	● Lactic Acid	● Sodium Chloride	● Zinc Chloride
	● Copper Sulphate	● Lubricating oil	● Sodium Hydroxide (10%)	
	● Cresol	● Methanol	● Sodium Hydroxide (60%)	

The information above is given as a guide only and is based on published technical data and experience. The chemical resistance of the above products is dependant on factors such as chemical exposure, concentration of the chemical and temperature. The above chemicals are valid for a temperature of 23°C. Use of the above table is at the users own discretion and risk. Those using it must satisfy themselves that their application presents no health and safety risks. The end user should assess compatibility with their application and contact Thomas & Betts for further information.

ADHERENCE TO THE CURRENT WIRING REGULATIONS BS7671 OR NEC WIRING REGULATIONS (FOR USA) IS STRONGLY ADVISED.

MINIMUM BEND RADIUS FOR FLEXING IS DEPENDANT UPON MINIMUM TEMPERATURE, BENDING FREQUENCY AND CHEMICAL ENVIRONMENT.

Chemical Resistance Chart

Metric	Standard thread conforming to EN60423 & BS3643			PG	German Standard thread conforming to DIN40430			NPT	US taper seal pipe thread conforming to ANSI/ASME B1.20.1-1983		
	Thread Size mm	Ext Thread Outside Diameter	Int Thread Inside Diameter		Pitch	Thread Size	Ext Thread Outside Diameter		Int Thread Inside Diameter	Pitch	Thread Size Inch
M10	10.0	8.9	1.0	PG7	12.5	11.3	1.27	-	-	-	-
M12	12.0	10.4	1.5	PG9	15.2	13.9	1.41	3/8"	16.7	1.14	
M16	16.0	14.4	1.5	PG11	18.6	17.3	1.41	1/2"	21.0	1.81	
M20	20.0	18.4	1.5	PG13.5	20.4	19.1	1.41	3/4"	26.4	1.81	
M25	25.0	23.4	1.5	PG16	22.5	21.2	1.41	1"	33.3	2.21	
M32	32.0	30.4	1.5	PG21	28.3	26.8	1.59	1 1/4"	41.9	2.21	
M40	40.0	38.4	1.5	PG29	37.0	35.5	1.59	1 1/2"	47.8	2.21	
M50	50.0	48.4	1.5	PG36	47.0	45.5	1.59	2"	59.6	2.21	
M63	63.0	61.4	1.5	PG42	54.0	52.2	1.59				
M75	75.0	73.4	1.5	PG48	59.3	57.8	1.59				