

# Metallic Systems

## SP Fitting Type A



### 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	IP54 - with all <a href="#">Adaptasteel</a> liquid resistant conduit in the series		
UV protection	Very High		
Fitting characteristics	Straight fixed fitting - external male thread		
Application	For insertion into knockouts using a locknut		
Normal operating temperature range	Application	Min Temp	Max Temp
	Static	- 50°C	+350°C
	Dynamic	- 45°C	+250°C
For use with - Conduit series	Type <a href="#">SP</a> , <a href="#">SN</a> & <a href="#">LFH-SP</a>		

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 <a href="#">4</a>
Type of material	Nickel Plated Brass



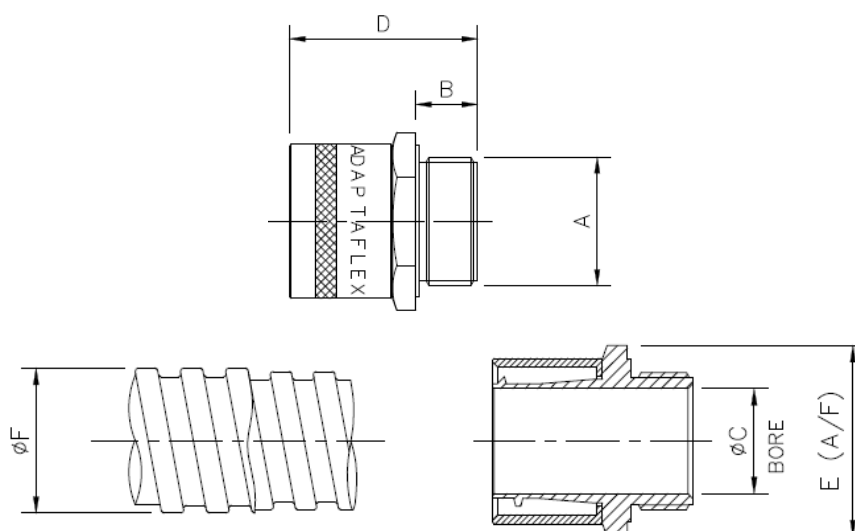
# Metallic Systems

## SP Fitting Type A



### Dimensional Data

Part No	Thread A	Nominal Dimensions (mm)				Nominal Conduit - $\varnothing$ F (mm)
		B	C	D	E	
SP10/M12/A	M12 x 1.5	8.0	5.5	23.0	14.0	10.0
SP12/M16/A	M16 x 1.5	8.0	8.5	23.0	17.0	12.0
SP16/M16/A	M16 x 1.5	10.0	11.5	25.5	20.0	16.0
SP16/M20/A	M20 x 1.5	10.0	11.5	25.5	22.0	16.0
SP20/M20/A	M20 x 1.5	13.0	15.3	29.0	24.0	20.0
SP25/M25/A	M25 x 1.5	12.0	19.0	36.5	30.0	25.0
SP32/M32/A	M32 x 1.5	14.0	26.2	39.0	38.0	32.0
SP40/M40/A	M40 x 1.5	15.0	34.2	43.0	50.0	40.0
SP50/M50/A	M50 x 1.5	15.0	45.0	45.0	66.5	50.0
SP63/M63/A	M63 x 1.5	20.0	54.0	57.0	76.5	63.0
SP75/M75/A	M75 x 1.5	20.0	66.5	60.0	84.0	75.0



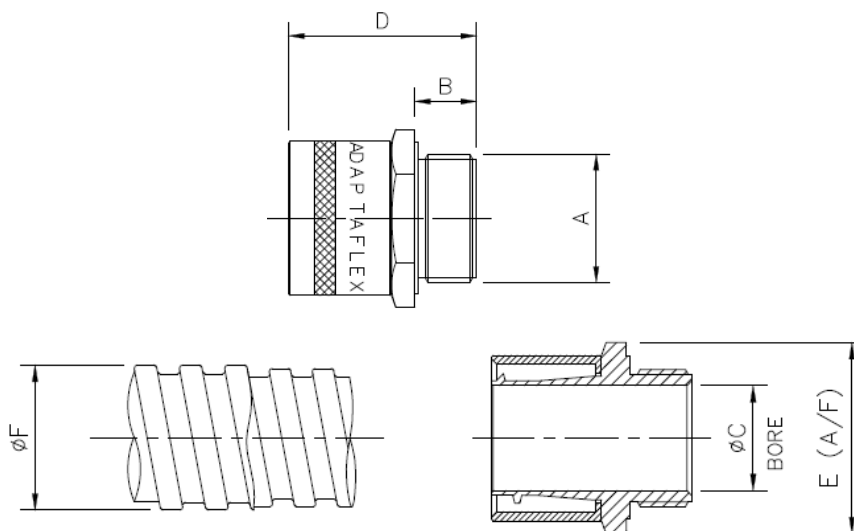
# Metallic Systems

## SP Fitting Type A



### Dimensional Data

Part No	Thread A	Nominal Dimensions (mm)				Nominal Conduit - $\varnothing$ F (mm)
		B	C	D	E	
SP10/PG7/A	PG7	8.0	5.5	23.0	14.0	10.0
SP12/PG9/A	PG9	8.0	8.5	23.0	17.0	12.0
SP16/PG11/A	PG11	10.0	11.5	25.5	20.0	16.0
SP20/PG16/A	PG16	12.0	15.3	29.0	24.0	20.0
SP25/PG21/A	PG21	12.0	19.0	36.5	30.0	25.0
SP32/PG29/A	PG29	14.0	26.2	39.0	38.0	32.0
SP40/PG36/A	PG36	15.0	34.2	43.0	50.0	40.0
SP50/PG42/A	PG42	15.0	45.0	45.0	66.5	50.0
SP63/PG48/A	PG48	20.0	54.0	57.0	76.5	63.0



# Metallic Systems

## SP Fitting Type A



### Chemical Resistance Chart

<b>Key:</b>	● 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.

### Thread Data

Metric	Standard thread conforming to EN60423 & BS3643			PG	German Standard thread conforming to DIN40430		
	Thread Size mm	Ext Thread Outside Diameter	Int Thread Inside Diameter		Thread Size	Ext Thread Outside Diameter	Int Thread Inside Diameter
M8	8.0	6.9	1.0	PG7	12.5	11.3	1.27
M10	10.0	8.9	1.0	PG9	15.2	13.9	1.41
M12	12.0	10.9	1.0	PG11	18.6	17.3	1.41
M12	12.0	10.4	1.5	PG13.5	20.4	19.1	1.41
M16	16.0	14.4	1.5	PG16	22.5	21.2	1.41
M18	18.0	16.9	1.0	PG21	28.3	26.8	1.59
M20	20.0	18.4	1.5	PG29	37.0	35.5	1.59
M25	25.0	23.4	1.5	PG36	47.0	45.5	1.59
M30	30.0	28.4	1.5	PG42	54.0	52.2	1.59
M32	32.0	30.4	1.5	PG48	59.3	57.8	1.59
M40	40.0	38.4	1.5	-	-	-	-
M50	50.0	48.4	1.5	-	-	-	-
M63	63.0	61.4	1.5	-	-	-	-
M75	75.0	73.4	1.5	-	-	-	-