



Metallic Systems

Type 45 Brass Elbow



Technical Characteristics

Conforms to	BSI Kitemark KM-35161 Low voltage directive		
Approvals and Standards	 		
Degree of mechanical protection	Very High		
Degree of protection	IP67 - Type SPL A , B & M fittings IP66 - Type SP M fittings IP54 - Type SP A & B fittings IP40 - Type S A & B fittings		
UV protection	Very High		
Fitting characteristics	45° combined fitting & elbow		
Application	For insertion into threaded entries & knockouts using a locknut		
Normal operating temperature range	Application	Min Temp	Max Temp
	Static	- 65°C	+150°C
	Dynamic	- 45°C	+150°C
For use with - Conduit series	All Adaptaflex Metallic conduit fittings		

Fire performance	Test Standard	Performance Rating
	Not Rated	Not rated

Testing data	Click or see page 5
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Type of material	Nickel Plated Brass
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Metallic Systems

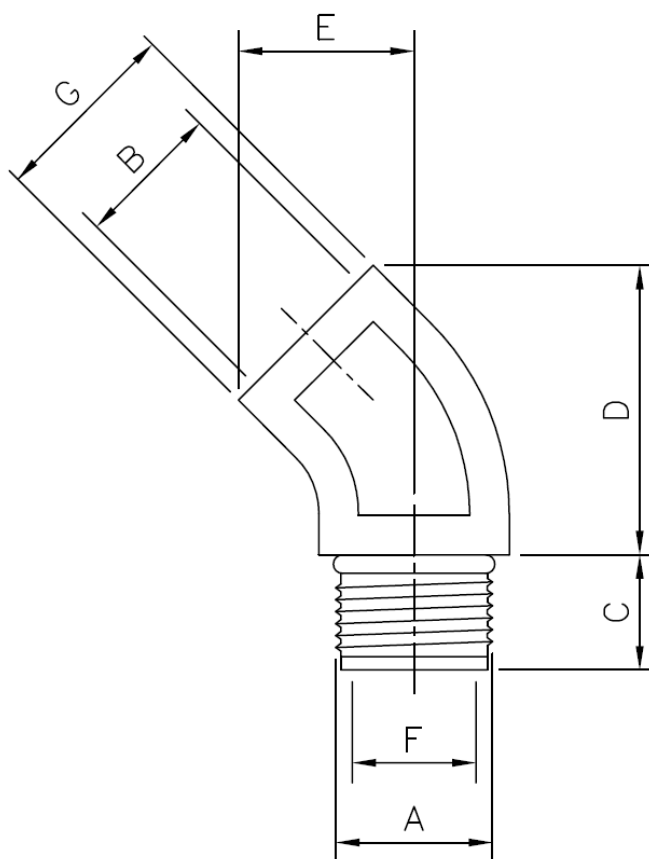
Type 45 Brass Elbow



Dimensional & Thread Data

Part No	Thread A	Thread B	Nominal Dimensions (mm)				
			C	D	E	F	G
B/M16/45	M16x1.5	M20x1.5	13.0	34.0	22.0	10.6	24.0
B/M20/45	M20x1.5	M20x1.5	13.0	34.0	22.0	14.3	24.0
B/M25/45	M25x1.5	M25x1.5	17.0	44.0	28.0	17.6	32.0
B/M32/45	M32x1.5	M32x1.5	17.0	60.0	36.0	24.6	41.0

Metric	Standard thread conforming to EN60423 & BS3643		
Thread Size mm	Ext Thread Outside Diameter	Int Thread Inside Diameter	Pitch
M10	10.0	8.9	1.0
M12	12.0	10.4	1.5
M16	16.0	14.4	1.5
M20	20.0	18.4	1.5
M25	25.0	23.4	1.5
M32	32.0	30.4	1.5
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



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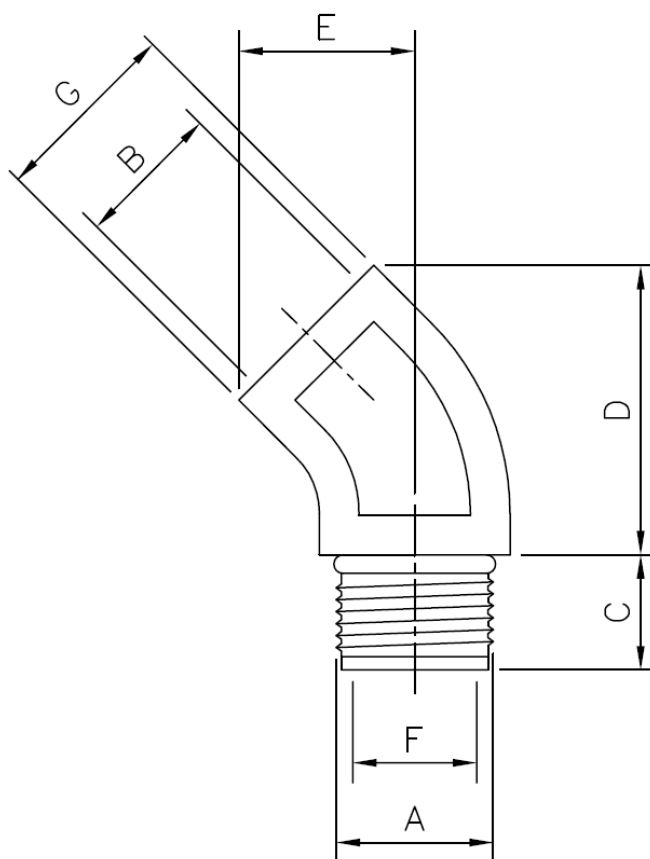
Type 45 Brass Elbow



Dimensional & Thread Data

Part No	Thread A	Thread B	Nominal Dimensions (mm)				
			C	D	E	F	G
B/PG11/45	PG11	M16x1.5	13.0	34.0	22.0	10.6	24.0
B/PG13/45	PG13.5	M20x1.5	13.0	34.0	22.0	14.3	24.0
B/PG16/45	PG16	M20x1.5	17.0	44.0	28.0	14.3	32.0
B/PG21/45	PG21	M25x1.5	17.0	60.0	36.0	17.6	41.0

PG	German Standard thread conforming to DIN40430		
Thread Size	Ext Thread Outside Diameter	Int Thread Inside Diameter	Pitch
PG7	12.5	11.3	1.27
PG9	15.2	13.9	1.41
PG11	18.6	17.3	1.41
PG13.5	20.4	19.1	1.41
PG16	22.5	21.2	1.41
PG21	28.3	26.8	1.59
PG29	37.0	35.5	1.59
PG36	47.0	45.5	1.59
PG42	54.0	52.2	1.59
PG48	59.3	57.8	1.59



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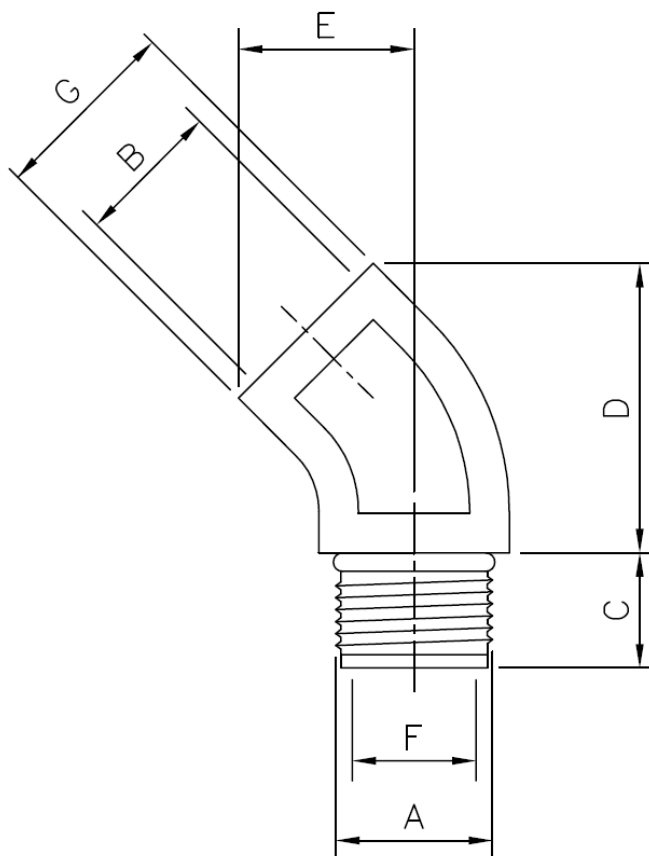
Type 45 Brass Elbow



Dimensional & Thread Data

Part No	Thread A	Thread B	Nominal Dimensions (mm)				
			C	D	E	F	G
B/050/45	1/2" NPT	M20x1.5	11.	34.0	22.0	10.6	24.0
B/075/45	3/4" NPT	M25x1.5	15.0	44.0	28.0	19.0	32.0
B/100/45	1" NPT	M32x1.5	15.0	60.0	36.0	26.4	41.0

NPT	US taper seal pipe thread conforming to ANSI/ASME B1.20.1-1983	
Thread Size Inch	Ext Thread Outside Diameter	Pitch
-	-	-
3/8"	16.7	1.14
1/2"	21.0	1.81
3/4"	26.4	1.81
1"	33.3	2.21
1 1/4"	41.9	2.21
1 1/2"	47.8	2.21
2"	59.6	2.21



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Chemical Resistance Chart

Key:

Suitable :



Limited Suitability :



Unsuitable :



Not Tested :



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.