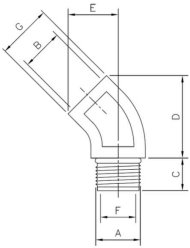
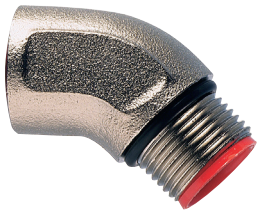


Technical Data Sheet

Metallic Systems Accessories - Type 45 Brass Elbow



Brass elbow, for insertion into threaded entries & knockouts using a locknut

Features

- 45° combined fitting & elbow
- IP40 - 67 rated
- Degree of mechanical protection is very high

Conformity

BSI Kitemark KM-35161
 Low voltage directive

Approvals



Fire Performance

Test Standard	Performance Rating
Not Rated	Not Rated

Degree of Mechanical Protection

Very High

IP Rating | **Appropriate Fitting**

For use with: see below	
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

Temperature Range

Static Application: -65°C to +150°C
 Dynamic Application: -45°C to +150°C

For Use With - Conduit Series

All Adaptaflex Metallic conduit fittings

Type of Material

Nikel Plated Brass

Finish

N/A

Testing Data

See last page

Fitting Characteristics

45° combined fitting & elbow

Part No	Thread A	Thread B	Nominal Dimensions (mm)				
			C	D	E	F	G
TB/M16/45	M16 x 1.5	M20 x 1.5	13.0	34.0	22.0	10.6	24.0
TB/M20/45	M20 x 1.5	M20 x 1.5	13.0	34.0	22.0	14.3	24.0
TB/M25/45	M25 x 1.5	M25 x 1.5	17.0	44.0	28.0	17.6	32.0
TB/M32/45	M32 x 1.5	M32 x 1.5	17.0	60.0	36.0	24.6	41.0

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Unit F11, Roete 24
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Technical Data Sheet

Metallic Systems

Accessories - Type 45 Brass Elbow

Thread Data

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

Part No	Thread A	Thread B	Nominal Dimensions (mm)				
			C	D	E	F	G
TB/PG11/45	PG11	M16 x 1.5	13.0	34.0	22.0	10.6	24.0
TB/PG13/45	PG13.5	M20 x 1.5	13.0	34.0	22.0	14.3	24.0
TB/PG16/45	PG16	M20 x 1.5	17.0	44.0	28.0	14.3	32.0
TB/PG21/45	PG21	M25 x 1.5	17.0	60.0	36.0	17.6	41.0

Thread Data

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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Metallic Systems Accessories - Type 45 Brass Elbow

Chemical Resistance Chart

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%)	

Key:

	Suitable
	Limited Suitability
	Unsuitable
	Not Tested

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 TTS 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.