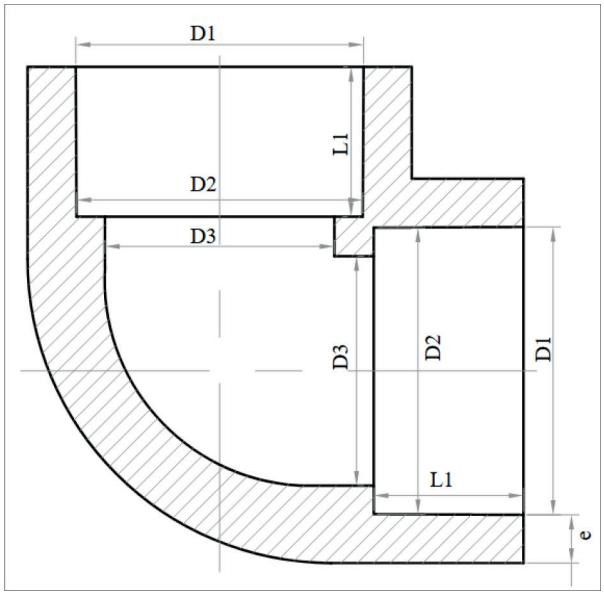
ELBOW 90°C

KAS®

TECHNICAL DATA SHEET 94.13.020 to 100	
Product Name	Elbow 90°
Intended Use	The Plumbing Systems

Dim.	PRODUCT CODE-9413...								
	020	025	032	040	050	063	075	090	110
DN	20	25	32	40	50	63	75	90	110
e	3,4 Min	4,2 Min	5,3 Min	6,7 Min	8,3 Min	10,5 Min	12,2 Min	15 Min	18 Min
L1	14,5 Min	16 Min	18 Min	20,5 Min	23,5 Min	27,5 Min	30 Min	33 Min	37 Min
D1	19,4±0,2	24,3±0,2	31,3±0,2	39,1±0,2	48,9±0,5	62±0,6	73,9±0,8	89,3±1,1	108,9±0,9
D2	19,1±0,3	24,1±0,4	31,1±0,2	38,7±0,5	48,7±0,5	61,8±0,6	73,5±1	88,5±1,1	107,6±0,6
D3	15,2 Min	19,4 Min	25 Min	31,4 Min	39,4 Min	49,8 Min	59,4 Min	71,6 Min	87,6 Min

Dimensions are in "mm"



Max. design temperature, Tmax, in °C	80	
Design stress of fitting material, σ DF, in MPa	3,02	
Test temperature, Ttest, in °C	20	95
Test duration, t, in h	1	1000
Hydrostatic stress of fitting material, σ F, in MPa	16	3,5
Test pressure, pF, in bars,		
For a design		
pressure, pD, of: 4bar	23,1 b	5,1b
6 bar	31,8	7,0
8 bar	42,5	9,3
10 bar	53,1	11,6
Number of test pieces	3	3

MATERIALS	
BODY	PPR

A-) Generally the highest test temperature is take to be (Tmax+10) °C with an upper limit of 95 °C. However to match existing test facilities the highest test temperature for classes 1 and 2 is also set at 95°C. The hydrostatic stresses given correspond to the given test temperatures.
A-) The °C, 10 bar, 50 years, cold water requirement, being higher, determines this value (see ISO 15874-1:2013, Clause 4)

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INSTALLATION and USAGE INSTRUCTION

Fittings must not be exposed to sunlight and must be protected from hard and sharp impacts.

Fittings to be installed must be clean, and dirty materials must not be welded.

Ensure that the welding dies used in the process comply with standards; do not weld with worn dies.

Protect the fittings from areas where they might freeze, as freezing expansion can damage them.