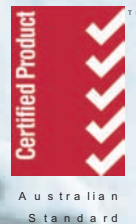
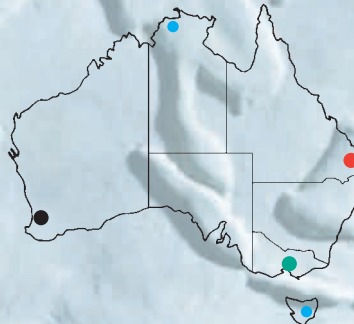


# kingston bridge engineering pty ltd



## product catalogue

**kingston bridge  
engineering pty ltd**  
ABN 38 068 106 356

### ● Western Australia - Perth

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**[www.kingstonbridge.com.au](http://www.kingstonbridge.com.au)**

● Future offices

# kingston bridge engineering pty ltd





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# kingston bridge engineering pty ltd



Kingston Bridge Engineering Pty Ltd specialise in fabrication of polyethylene pipework at our Western Australian Welshpool factory.

Our services include :

- Manufacture of polyethylene pipe PE100
- Fabrication of polyethylene pipe spools
- Manufacture of sweep bends from 25mm up to 1000mm outside diameter
- Manufacture of equal and reducing butt welded tees up to 1200mm outside diameter
- Manufacture of segmented bends up to 2000mm outside diameter
- Manufacture of pipe end fittings - up to 2000mm
- Supply of butt weld, electrofusion and compression pipe fittings
- Fabrication of polyethylene plate work and tanks

We have quality assurance accreditation to AS/NZS ISO 9001: 2000, AS/NZS 4801:2001 OH&S

Please note that the dimensions in this catalogue are subject to change without notice.

Standard trading terms and conditions available upon request.

Kingston Bridge Engineering Pty Ltd se spécialise dans la fabrication de tuyauteries en polyéthylène à son usine à Welshpool, en Australie Occidentale.

Nos services comprennent les suivants :

- Fabrication de bobines de tuyaux en polyéthylène
- Fabrication de courbes à grand rayon d'un diamètre externe d'entre 25mm et 1000mm
- Fabrication de tés égaux et réduits soudés bout à bout d'un diamètre externe maximum de 1200mm
- Fabrication de courbes segmentées d'un diamètre externe maximum de 2000mm
- Fabrication d'embouts de tuyaux – jusqu'à 2000mm
- Approvisionnement d'accessoires soudés bout à bout, électrosoudables et de compression
- Fabrication de plaques et de réservoirs en polyéthylène

Au niveau de l'assurance-qualité, nous sommes habilités conformément à la norme australienne et néo-zélandaise AS/NZS ISO 9001: 2000, AS/NZS 4801:2001 OH&S

Prrière de noter que les dimensions signalées dans ce catalogue sont susceptibles de modification sans préavis.

Nos termes et conditions commerciales sont disponibles à la demande.

**kingston bridge  
engineering pty ltd**

ABN 38 068 106 356

## Head Office

125 Sheffield Road  
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## Certification

Awarded to

### **KINGSTON BRIDGE ENGINEERING PTY LTD**

125 SHEFFIELD ROAD, WELSHPOOL, WA, 6106  
AUSTRALIA

BVQI certify that the Management System of the above organisation has been audited and found to be in accordance with the requirements of the management system standards detailed below

#### STANDARD

### **AS/NZS ISO 9001:2000**

#### SCOPE OF SUPPLY

**THE MANUFACTURE AND SUPPLY OF PLASTIC PIPING SYSTEMS,  
PIPE EXTRUSION OF POLYETHYLENE PIPING, PIPE LINING  
AND SHEETWORK ENCOMPASSING MULTI-SKILLED  
WELDING AND FABRICATION FACILITY FOR BUTT-WELDING,  
ELECTROFUSION WELDING, SOCKET FUSION WELDING,  
EXTRUSION WELDING. PLASTIC FORMING AND MACHINING**

Original Approval Date: **29 September 1995**

*Subject to the continued satisfactory operation of the organisation's Management System,*

*this certificate is valid until:* **1 November 2007**

*To check this certificate validity please call:* **BVQI Australia Pty Ltd**

*Further clarifications regarding the scope of this certificate and the applicability of the management system requirements may be obtained by consulting the organisation*

Certificate number: **149318** Date: **8 November 2004**

*J Southall*

Managing office: BVQI Australia, Unit 8/57 Labouchere Road  
South Perth, Western Australia, Australia, 6151;  
Issuing Office: BVQI Australia, Unit 8/57 Labouchere Road  
South Perth, Western Australia, Australia, 6151.

**JAS-ANZ**



Registration Number  
S1990200AP







Australian  
Standard

# STANDARDSMARK LICENCE

*SAI Global hereby grants to:*

## Kingston Bridge Engineering Pty Ltd

ABN 38068106356

125 Sheffield Road, WELSHPOOL, WA, Australia

*"the Licensee" the right to use the STANDARDSMARK as shown above only in respect of the goods described and detailed in the Schedule which are produced by the Licensee and which comply with the appropriate Standard referred to below as from time to time amended. The Licence is granted subject to the rules governing the use of the STANDARDSMARK and the Terms and Conditions for certification and licence. The Licensee covenants to comply with all the Rules and Terms and Conditions.*

*Manufactured to:*

**AS/NZS 4130:2003 - Polyethylene (PE) pipes for pressure applications**

The STANDARDSMARK is a registered certification trademark of SAI Global Limited (A.C.N. 050 644 642) and is issued under licence by SAI Global Certification Services Pty Limited (ACN 108 716 669) ("SAI Global"). This certificate remains the property of SAI Global and must be returned to SAI Global upon its request. Refer to the Schedule for the list of product models.

**Licence No.: SMKP20589**

**Issue Date: 7 July 2006**

Alex Ezrakhovich - General Manager Certification  
For and on behalf of SAI Global

**Certified Date: 7 July 2006**

**Expiry Date: 6 July 2011**

Authorised Local Signatory, SAI Global



The above accreditation covers the manufacture of pipe used for drinking water and gas from 25mm to 1200mm

To verify that this certificate is current please refer to the SAI Global StandardsMark website: <http://StandardsMark.com>





## Certification

Awarded to

### KINGSTON BRIDGE ENGINEERING PTY LTD

125 SHEFFIELD ROAD, WELSHPOOL, WA, 6106  
AUSTRALIA

BVQI certify that the Management System of the above organisation has been audited and found to be in accordance with the requirements of the management system standards detailed below

STANDARD

**AS/NZS 4801:2001**

SCOPE OF SUPPLY

**THE MANUFACTURE AND SUPPLY OF PLASTIC PIPING SYSTEMS,  
PIPE EXTRUSIONS OF POLYETHYLENE PIPING, PIPE LINING  
AND SHEETWORK ENCOMPASSING MULTI-SKILLED  
WELDING AND FABRICATION FACILITY FOR BUTT WELDING,  
ELECTROFUSION WELDING, SOCKET FUSION WELDING,  
EXTRUSION WELDING, PLASTIC FORMING AND MACHINING**

*Original Approval Date:* **23 October 2006**

*Subject to the continued satisfactory operation of the organisation's Management System,*

*this certificate is valid until:* **15 May 2007**

*To check this certificate validity please call:* **Bureau Veritas Australia Pty Ltd**

*Further clarifications regarding the scope of this certificate and the applicability of the management system requirements may be obtained by consulting the organisation*

*Certificate number:* **201113** *Date:* **26 October 2006**

Managing office: Bureau Veritas Australia Pty Ltd, Unit 8/57 Labouchere Road  
South Perth, Western Australia, Australia, 6151;

Issuing Office: Bureau Veritas Australia Pty Ltd, Unit 8/57 Labouchere Road  
South Perth, Western Australia, Australia, 6151.

**JAS-ANZ**



Registration Number  
**02030400AP**





## Fabrication of Polyethylene Pipe Spools and Weldments

Kingston Bridge Engineering staff have many years of experience in the fabrication of polyethylene pipe spools and pipework.

Our workshop has adequate capacity to produce a large volume of polyethylene pipe spools up to 2000mm outside diameter. The workshop is equipped with an extensive range of butt and electrofusion welding machines and has overhead craneage capacity.

We fabricate to client spool drawings or develop spool drawings from client base design data. Alternatively spool drawings can be produced from site measurements.

Kingston Bridge Engineering's quality management system is in accredited to comply with AS/NZS ISO 9001:2000. Inspection procedures ensure spooling is dimensionally accurate and complies with customer drawings and specifications.

A large stock of materials is maintained which allows commitment to prompt delivery. Extensive fabrication capacity allows larger projects to be processed in acceptable time frames.

Requests for quotations are responded to promptly and our experience allows us in many instances to prepare cost effective solutions to meet client requirements.

## Fabrication de bobines de tuyaux et d'assemblages soudés en polyéthylène

Le personnel de Kingston Bridge Engineering a une très longue expérience dans le domaine de la fabrication de bobines de tuyaux et de tuyauteries en polyéthylène.

La capacité de notre atelier est suffisante pour produire un gros volume de bobines de tuyaux en polyéthylène d'un diamètre externe maximum de 2000mm. L'atelier dispose d'une grande variété de machines à souder bout à bout et par électrofusion ainsi que de ponts roulants.

Nous fabriquons des bobines de tuyaux selon les dessins fournis par le client ou nous élaborons des dessins à partir des données nominales indiquées par le client. Si besoin est, nous produisons les dessins nécessaires en prenant des mesures sur place.

Le système d'assurance-qualité mis en œuvre par Kingston Bridge Engineering respecte la norme australienne et néo-zélandaise AS/NZS ISO 9001:2000. Les procédés de vérification assurent la précision des dimensions des bobines et la conformité de ceux-ci aux dessins et spécifications du client.

Un vaste stock de matériaux est maintenu pour assurer la promptitude de la livraison. L'ampleur des capacités de fabrication permet de traiter des projets de grande envergure dans des délais acceptables.

Nous répondons promptement aux demandes de devis et notre expérience nous permet d'envisager des solutions rentables pour satisfaire parfaitement les besoins du client.



Pipe extrusion plant

Usine d'extrusion de tuyaux





Piping systems



**kingston bridge  
engineering pty ltd**  
ABN 38 068 106 356

telephone 08 9458 9022  
facsimile 18 9458 9033



## KINGSTON BRIDGE ENGINEERING Pty Ltd LABORATORY

### HYDROSTATIC PRESSURE TEST

Hydrostatic Pressure Testing is carried out in accordance with Standards AS/NZS 4130 and AS/NZS1462.6 . We have conducted a Hydrostatic Pressure Test at 80 degrees Centigrade and determine the pipes and TEE's resistance to internal pressure . The Test Specimen must stand a determined pressure for a specific amount of time without failure . Failure is defined as leaking , weeping or rupturing of the Test Specimen . Pressure is maintained by use of an IPT Airless pressure machine .

KINGSTON BRIDGE ENGINEERING Pty Ltd :- Job No. 25355      Laboratory Job No.:- 25355H

#### SPECIMEN SPECIFICATIONS :-

Manufacturer : Kingston Bridge Engineering Pty Ltd ( 500 EQUAL TEE )

SDR & PN	SDR11 /PN16	Set Pressure	10.4 bar
PE CLASSIFICATION	PE100	Min Pressure	10.2 bar
Mean TEE O/Diameter	500mm	Max Pressure	10.6 bar
Pipe Wall Thickness (Min)	45.9	Duration	1000 hours
Production Date	31.10.2006	Conditioning Time	18 hours
Batch No.	N/A	Hoop Stress	5 bar
Start Date	6.11.2006	End Date	19.12.2006
Type of Endcap	C500SDR11	Type of Endcap Top	ST. Blind FL
Failure Type	Not Applicable		
		Pass / Fail	PASS



630 x 400 REDUCING TEE



500 EQUAL TEE

#### SPECIMEN SPECIFICATIONS :-

Manufacturer : Kingston Bridge Engineering Pty Ltd (630 x 400 REDUCING TEE.)

SDR & PN	SDR17 /PN10	Set Pressure	7.01 bar
PE CLASSIFICATION	PE100	Min Pressure	6.68 bar
Mean TEE O/Diameter	630 x 400 mm	Max Pressure	7.15 bar
Pipe Wall Thickness (Min)	42.9	Duration	1000 hours
Production Date	11.10.2006	Conditioning Time	18 hours
Batch No.	N/A	Hoop Stress	5 bar
Start Date	13.10.2006	End Date	28.11.2006
Type of Endcap	C630SDR17	Type of Endcap Top	ST. Blind FL
Failure Type	Not Applicable		
		Pass / Fail	PASS



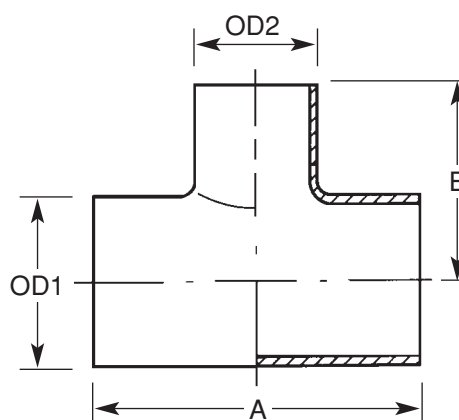


## PE100 KBE REDUCING TEES

## TES REDUITS KBE EN PE100

For butt welding

CODE	OD1	OD2	A	B
TFR..200090	200	90	600	550
TFR..200110	200	110	600	550
TFR..225090	225	90	600	550
TFR..225110	225	110	600	550
TFR..250090	250	90	600	650
TFR..250110	250	110	600	650
TFR..250160	250	160	600	650
TFR..280090	280	90	600	650
TFR..280110	280	110	600	650
TFR..280160	280	160	600	650
TFR..280200	280	200	600	650
TFR..315090	315	90	600	700
TFR..315110	315	110	600	700
TFR..315160	315	160	650	700
TFR..315200	315	200	650	700
TFR..355090	355	90	650	700
TFR..355110	355	110	650	700
TFR..355160	355	160	650	700
TFR..355200	355	200	700	700
TFR..355225	355	225	700	700
TFR..355250	355	250	700	700
TFR..400090	400	90	800	750
TFR..400110	400	110	800	750
TFR..400160	400	160	800	750
TFR..400200	400	200	900	750
TFR..400225	400	225	900	750
TFR..400250	400	250	900	750
TFR..400280	400	280	900	750
TFR..450090	450	90	900	750
TFR..450110	450	110	900	750
TFR..450160	450	160	900	750
TFR..450200	450	200	1000	750
TFR..450225	450	225	1000	750
TFR..450250	450	250	1000	800
TFR..450280	450	280	1000	800
TFR..450315	450	315	1000	800
TFR..500160	500	160	1000	800
TFR..500200	500	200	1000	800
TFR..500225	500	225	1000	800
TFR..500250	500	250	1000	900
TFR..500280	500	280	1000	900
TFR..500315	500	315	1000	900
TFR..500355	500	355	1000	900
TFR..560200	560	200	1000	900
TFR..560225	560	225	1000	900
TFR..560250	560	250	1000	900
TFR..560280	560	280	1000	1200
TFR..560315	560	315	1000	1200
TFR..560355	560	355	1000	1200
TFR..630200	630	200	1000	1200
TFR..630225	630	225	1000	1200
TFR..630250	630	250	1000	1200
TFR..630280	630	280	1000	1200
TFR..630315	630	315	1100	1200
TFR..630355	630	355	1100	1200
TFR..630400	630	400	1200	1200
TFR..630450	630	450	1200	1200



**AUSTRALIAN DESIGN  
REGISTRATION NUMBER  
139414**



Reinforced reducing tee



SDR rating to be specified

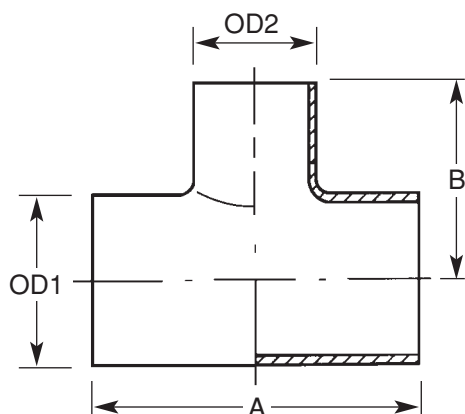
Can be modified to suit electrofusion



## PE100 KBE REDUCING TEES

## TES REDUITS KBE EN PE100

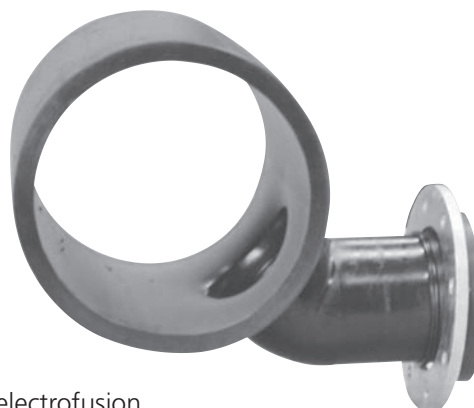
For butt welding



**AUSTRALIAN DESIGN  
REGISTRATION NUMBER  
139414**

TFR..710200	710	200	1100	1200
TFR..710225	710	225	1100	1200
TFR..710250	710	250	1100	1200
TFR..710280	710	280	1200	1200
TFR..710315	710	315	1200	1200
TFR..710355	710	355	1200	1200
TFR..710400	710	400	1300	1500
TFR..710450	710	450	1300	1500
TFR..710500	710	500	1300	1500
TFR..800200	800	200	1100	1200
TFR..800225	800	225	1100	1200
TFR..800250	800	250	1200	1200
TFR..800280	800	280	1200	1200
TFR..800315	800	315	1200	1200
TFR..800355	800	355	1300	1200
TFR..800400	800	400	1300	1600
TFR..800450	800	450	1400	1600
TFR..800500	800	500	1400	1600
TFR..800560	800	560	1500	1600
TFR..800630	800	630	1500	1600
TFR..1000200	1000	200	1400	1200
TFR..1000225	1000	225	1400	1200
TFR..1000250	1000	250	1400	1200
TFR..1000280	1000	280	1400	1200
TFR..1000315	1000	315	1500	1200
TFR..1000355	1000	355	1500	1200
TFR..1000400	1000	400	1500	1700
TFR..1000450	1000	450	1600	1700
TFR..1000500	1000	500	1600	1700
TFR..1000560	1000	560	1700	1700
TFR..1000630	1000	630	1700	1700
TRF..1200250	1200	250	1500	1300
TRF..1200280	1200	280	1500	1300
TRF..1200315	1200	315	1600	1300
TRF..1200355	1200	355	1600	1300
TRF..1200400	1200	400	1700	1800
TRF..1200450	1200	450	1700	1800
TRF..1200500	1200	500	1800	1800
TRF..1200560	1200	560	1800	1800
TRF..1200630	1200	630	1800	1800
TRF..1400000	1400			
TRF..1600000	1600			
TRF..1800000	1800			
TRF..2000000	2000			

SDR rating to be specified



Can be modified to suit electrofusion





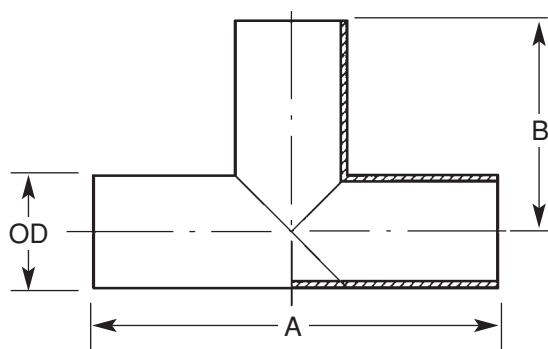
## PE100 TEES, EXTENDED LEG

## TES EN PE100, EMBRANCHEMENT RALLONGE

Suitable for all Butt Welding Machines  
CNC Butt Welded for electrofusion and butt welding

CODE	OD	A	B
TF..090	90	400	200
TF..110	110	500	250
TF..125	125	500	250
TF..140	140	500	500
TF..160	160	600	500
TF..180	180	620	500
TF..200	200	650	500
TF..225	225	650	550
TF..250	250	700	650
TF..280	280	700	650
TF..315	315	800	700
TF..355	355	800	700
TF..400	400	1000	1100
TF..450	450	1100	1100
TF..500	500	1200	1200
TF..560	560	1200	1200
TF..630	630	1200	1200
TF..710	710	1500	1700
TF..800	800	1600	1700
TF..1000	1000	1800	1700

..SDR rating to be specified



Pressure Reduction Factor 0.65  
(Higher pressure ratings can be achieved through reinforcement which is available on request)

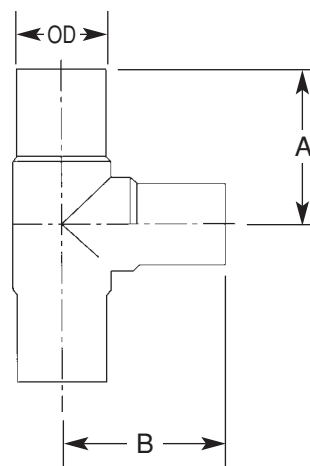
## PE100 MOULDED LONG SPIGOT - EQUAL TEES

## LONG PORTE-TUYAU MOULE EN PE100 - TES EGAUX

Suitable for electrofusion or butt welding

CODE	OD	A	B
EFT..025	25	60	60
EFT..032	32	68	68
EFT..040	40	80	79
EFT..050	50	92	92
EFT..063	63	108	108
EFT..075	75	123	123
EFT..090	90	135	135
EFT..110	110	159	159
EFT..125	125	172	172
EFT..140	140	196	196
EFT..160	160	205	205
EFT..180	180	260	260
EFT..200	200	250	250
EFT..225	225	276	276
EFT..250	250	288	288
EFT..280	280	306	306
EFT..315	315	346	346
EFT..355	355	410	410
EFT..400	400	460	460

..SDR rating to be specified on ordering



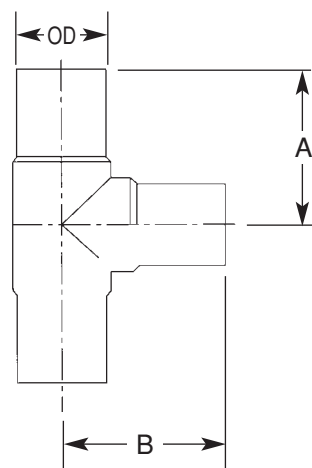


## PE100 MOULDED SHORT SPIGOT - EQUAL TEES

## PORTE-TUYAU COURT MOULE EN PE100 - TES EGAUX

Suitable for butt welding

CODE	OD	A	B
TM..020	20	39	39
TM..025	25	41	40
TM..032	32	43	42
TM..040	40	46	45
TM..050	50	50	50
TM..063	63	64	63
TM..075	75	75	75
TM..090	90	92	92
TM..110	110	128	128
TM..125	125	128	128
TM..140	140	157	157
TM..160	160	158	158
TM..180	180	215	212
TM..200	200	216	215
TM..225	225	224	224
TM..250	250	223	222
TM..280	280	262	262
TM..315	315	283	278
TM..355	355	345	345
TM..400	400	361	360
TM..450	450	450	450
TM..500	500	450	450

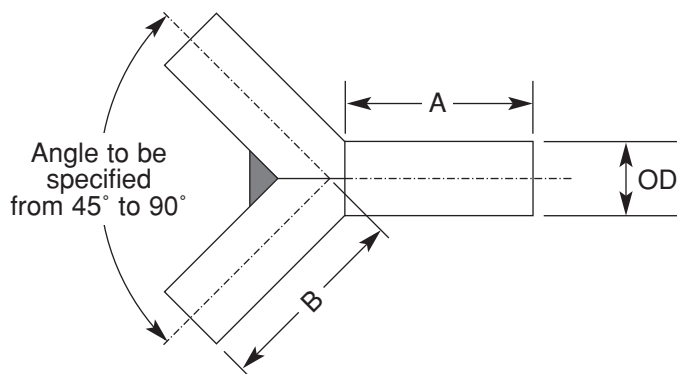


SDR rating to be specified

## PE100 CNC BUTT WELDED - 90° - 60° - 45° Y - piece

## JOINT CNC EN Y SOUDE BOUT A BOUT EN PE100 - 90°, 60° OU 45°

CNC Butt Welded



Pressure reduction factor of 0.50

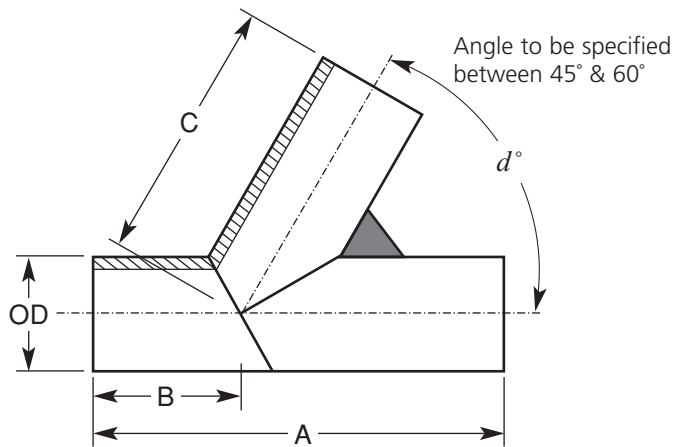
CODE	OD	A	B
Y..09090	90	200	450
Y..11090	110	250	450
Y..12590	125	250	450
Y..14090	140	500	600
Y..16090	160	500	600
Y..18090	180	500	750
Y..20090	200	500	750
Y..22590	225	550	750
Y..25090	250	650	900
Y..28090	280	650	900
Y..31590	315	700	1050
Y..35590	355	700	1180
Y..40090	400	1100	1250
Y..45090	450	1100	1300
Y..50090	500	1200	1400
Y..56090	560	1200	1400
Y..63090	630	1200	1440
Y..71090	710	1700	1500
Y..80090	800	1700	1500
Y..100090	1000	1700	1500

SDR rating to be specified





**PE100 CNC BUTT WELDED JUNCTIONS 45° / 60° JOINTS CNC EN Y SOUDES BOUT A BOUT EN PE100 - 45°/60°**



CODE	OD	A	B	C
YJ..090	90	700	270	430
YJ..110	110	700	270	430
YJ..125	125	750	300	450
YJ..140	140	780	300	480
YJ..160	160	850	330	520
YJ..180	180	950	360	590
YJ..200	200	960	370	590
YJ..225	225	1080	420	660
YJ..250	250	1150	450	710
YJ..280	280	1250	500	750
YJ..315	315	1350	530	820
YJ..355	355	1450	570	880
YJ..400	400	1550	600	950
YJ..450	450	1850	650	1200
YJ..500	500	2100	700	1400
YJ..560	560	2200	800	1400
YJ..630	630	2300	800	1500
YJ..710	710	2600	900	1700
YJ..800	800	2800	1000	1800
YJ..1000	1000	3400	1200	2200

SDR rating to be specified

CNC butt welded for electrofusion and butt welding.

Pressure reduction factor of 0.50

CNC Butt Welded reducing Y - junction.



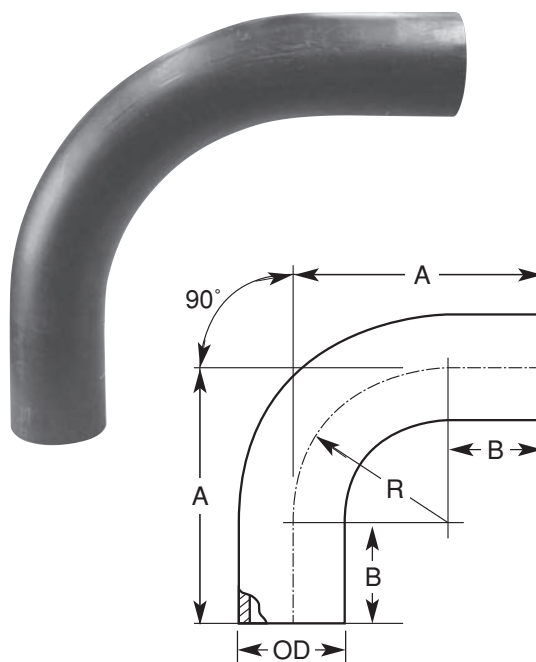


## PE100 SWEEP BENDS: 90°

## COURBES A GRAND RAYON EN PE100 : 90°

Suitable for butt welding

CODE	OD	A	B	R
S..02090	20	200	100	100
S..02590	25	200	100	100
S..03290	32	228	100	128
S..04090	40	260	100	160
S..05090	50	275	100	175
S..06390	63	325	100	225
S..07590	75	455	150	305
S..09090	90	455	150	305
S..11090	110	560	180	380
S..12590	125	560	180	380
S..14090	140	660	200	460
S..16090	160	660	200	460
S..18090	180	743	225	518
S..20090	200	785	250	535
S..22590	225	785	250	535
S..25090	250	915	300	615
S..28090	280	965	350	615
S..31590	315	1115	400	715
S..35590	355	1280	500	780
S..40090	400	1620	550	1070
S..45090	450	1650	550	1100
S..50090	500	1950	700	1250
S..56090	560	1982	700	1282
S..63090	630	2015	700	1315
S..71090	710	2462	900	1562
S..80090	800	2660	900	1760
S..100090	1000	3100	1000	2100



SDR rating to be specified

Full range of angles from 5° to 90° available on request

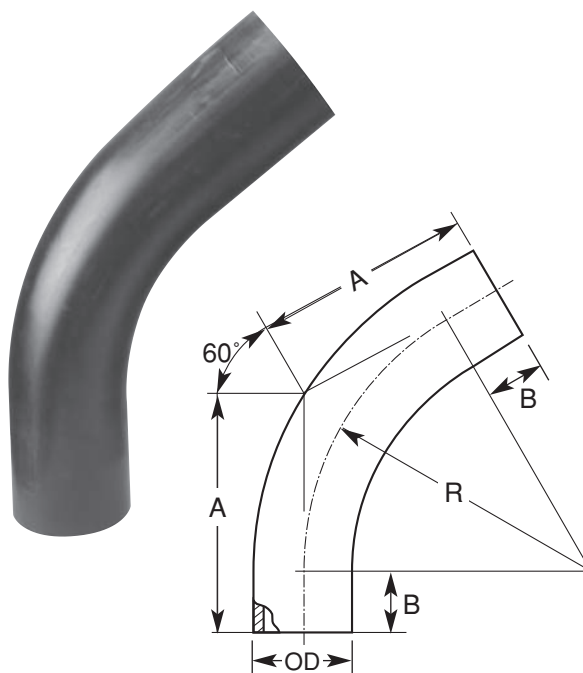
Can be modified to suit electrofusion

## PE100 SWEEP BENDS: 60°

## COURBES A GRAND RAYON EN PE100 : 60°

Suitable for butt welding

CODE	OD	A	B	R
S..02060	20	155	100	100
S..02560	25	155	100	100
S..03260	32	170	100	128
S..04060	40	190	100	160
S..05060	50	200	100	175
S..06360	63	230	100	225
S..07560	75	320	150	305
S..09060	90	320	150	305
S..11060	110	400	180	380
S..12560	125	400	180	380
S..14060	140	465	200	460
S..16060	160	465	200	460
S..18060	180	523	225	98
S..20060	200	560	250	535
S..22560	225	560	250	535
S..25060	250	655	300	615
S..28060	280	705	350	615
S..31560	315	810	400	715
S..35560	355	950	500	780
S..40060	400	1160	550	1070
S..45060	450	1185	550	1100
S..50060	500	1420	700	1250
S..56060	560	1440	700	1282
S..63060	630	1460	700	1315
S..71060	710	1800	900	1562
S..80060	800	1920	900	1760
S..100060	1000	2210	1000	2100



SDR rating to be specified

Full range of angles from 5° to 60° available on request

Can be modified to suit electrofusion

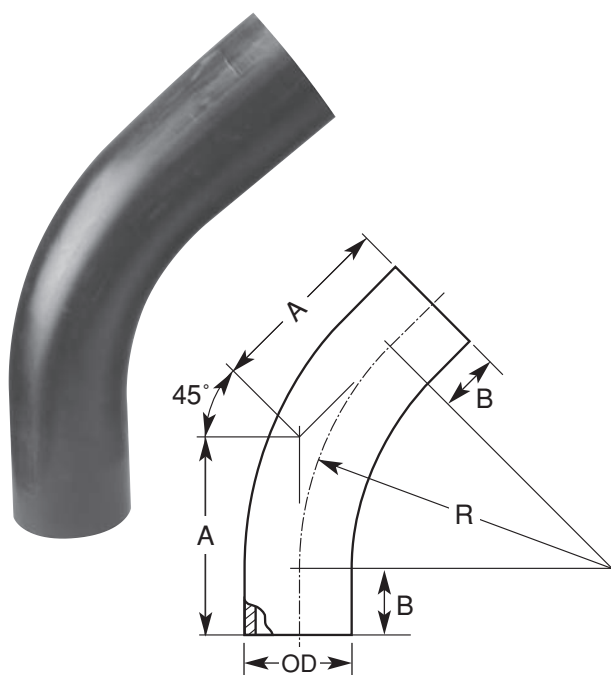




## PE100 SWEEP BENDS: 45°

## COURBES A GRAND RAYON EN PE100 : 45°

Suitable for butt welding



SDR rating to be specified

Full range of angles from 5° to 45° available on request

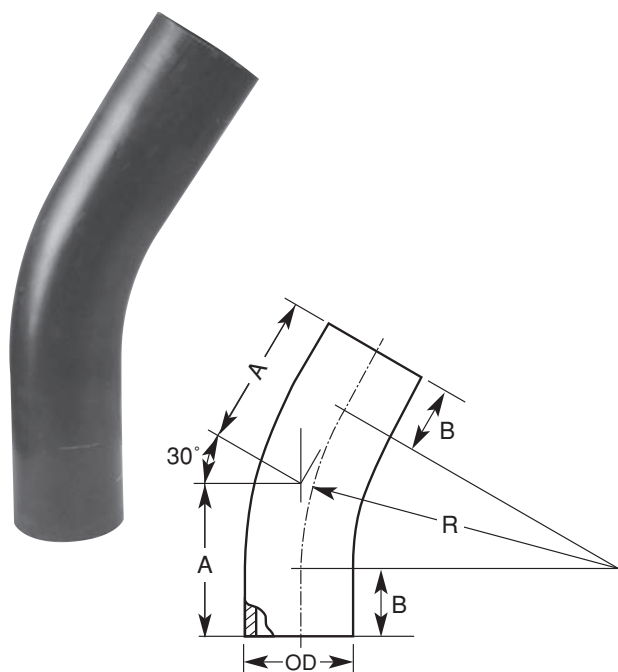
Can be modified to suit electrofusion

CODE	OD	A	B	R
S..02045	20	140	100	100
S..02545	25	140	100	100
S..03245	32	150	100	128
S..04045	40	165	100	160
S..05045	50	170	100	175
S..06345	63	190	100	225
S..07545	75	270	150	305
S..09045	90	270	150	305
S..11045	110	340	180	380
S..12545	125	340	180	380
S..14045	140	390	200	460
S..16045	160	390	200	460
S..18045	180	440	225	518
S..20045	200	470	250	535
S..22545	225	470	250	535
S..25045	250	550	300	615
S..28045	280	605	350	615
S..31545	315	695	400	715
S..35545	355	820	500	780
S..40045	400	990	550	1070
S..45045	450	1005	550	1100
S..50045	500	1215	700	1250
S..56045	560	1230	700	1282
S..63045	630	1245	700	1315
S..71045	710	1550	900	1562
S..80045	800	1630	900	1760
S..100045	1000	1870	1000	2100

## PE100 SWEEP BENDS: 30°

## COURBES A GRAND RAYON EN PE100 : 30°

Suitable for butt welding



SDR rating to be specified

Full range of angles from 5° to 30° available on request

Can be modified to suit electrofusion

CODE	OD	A	B	R
S..02030	20	130	100	100
S..02530	25	130	100	100
S..03230	32	134	100	128
S..04030	40	140	100	160
S..05030	50	146	100	175
S..06330	63	160	100	225
S..07530	75	230	150	305
S..09030	90	230	150	305
S..11030	110	280	180	380
S..12530	125	280	180	380
S..14030	140	320	200	460
S..16030	160	320	200	460
S..18030	180	360	225	518
S..20030	200	320	250	535
S..22530	225	400	250	535
S..25030	250	460	300	615
S..28030	280	510	350	615
S..31530	315	605	400	715
S..35530	355	710	500	780
S..40030	400	830	550	1070
S..45030	450	840	550	1100
S..50030	500	1030	700	1250
S..56030	560	1040	700	1282
S..63030	630	1050	700	1315
S..71030	710	1310	900	1562
S..80030	800	1360	900	1760
S..100030	1000	1550	1000	2100



## PE100 SEGMENTED BEND 90°

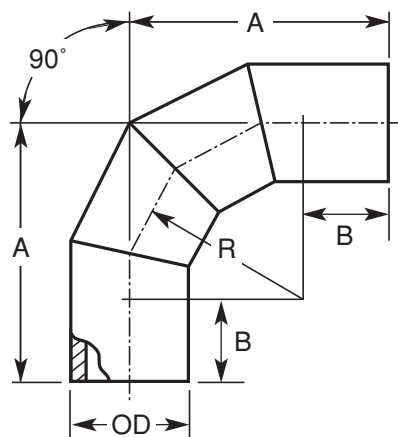
## COURBE SEGMENTEE EN PE100 90°

CNC Butt Welded

CODE	OD	A	B	R
SB..09090	90	235	100	135
SB..11090	110	265	100	165
SB..12590	125	338	150	188
SB..14090	140	360	150	210
SB..16090	160	390	150	240
SB..18090	180	425	150	270
SB..20090	200	450	150	300
SB..22590	225	488	150	338
SB..25090	250	625	250	375
SB..28090	280	670	250	420
SB..31590	315	777	300	477
SB..35590	355	833	300	533
SB..40090	400	900	300	600
SB..45090	450	975	300	675
SB..50090	500	1100	350	750
SB..56090	560	1190	350	840
SB..63090	630	1295	350	945
SB..71090	710	1415	350	1065
SB..80090	800	1550	350	1200
SB..100090	1000	1900	400	1500
SB..120090	1200	2200	400	1800

SDR rating to be specified

Full range of angles from 5° to 90° available on request



## PE100 SEGMENTED BEND 60°

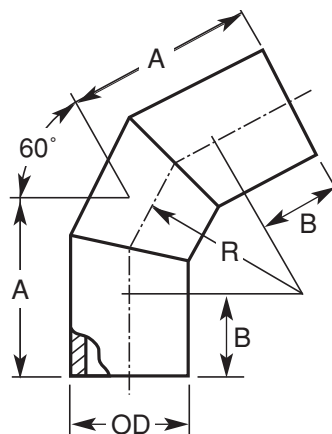
## COURBE SEGMENTEE EN PE100 60°

CNC Butt Welded

CODE	OD	A	B	R
SB..09060	90	178	100	135
SB..11060	110	195	100	165
SB..12560	125	258	150	188
SB..14060	140	275	150	210
SB..16060	160	288	150	240
SB..18060	180	301	150	270
SB..20060	200	323	150	300
SB..22560	225	345	150	338
SB..25060	250	466	250	375
SB..28060	280	492	250	420
SB..31560	315	576	300	477
SB..35560	355	608	300	533
SB..40060	400	646	300	600
SB..45060	450	689	300	675
SB..50060	500	783	350	750
SB..56060	560	835	350	840
SB..63060	630	896	350	945
SB..71060	710	965	350	1065
SB..80060	800	1043	350	1200
SB..100060	1000	1267	400	1500
SB..120060	1200	1440	400	1800

SDR rating to be specified

Full range of angles from 5° to 60° available on request

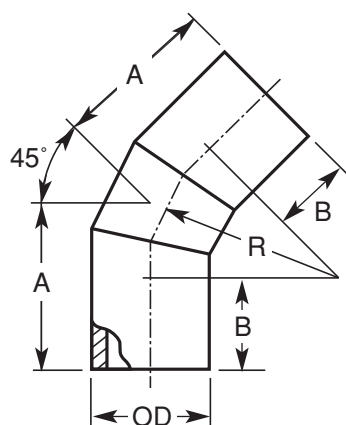




## PE100 SEGMENTED BEND 45°

## COURBE SEGMENTEE EN PE100 45°

CNC Butt Welded



CODE	OD	A	B	R
SB..09045	90	156	100	135
SB..11045	110	168	100	165
SB..12545	125	227	150	188
SB..14045	140	237	150	210
SB..16045	160	249	150	240
SB..18045	180	261	150	270
SB..20045	200	274	150	300
SB..22545	225	290	150	338
SB..25045	250	412	250	375
SB..28045	280	474	250	420
SB..31545	315	498	300	477
SB..35545	355	520	300	533
SB..40045	400	548	300	600
SB..45045	450	580	300	675
SB..50045	500	665	350	750
SB..56045	560	698	350	840
SB..63045	630	741	350	945
SB..71045	710	791	350	1065
SB..80045	800	847	350	1200
SB..100045	1000	1022	400	1500
SB..120045	1200	1146	400	1800

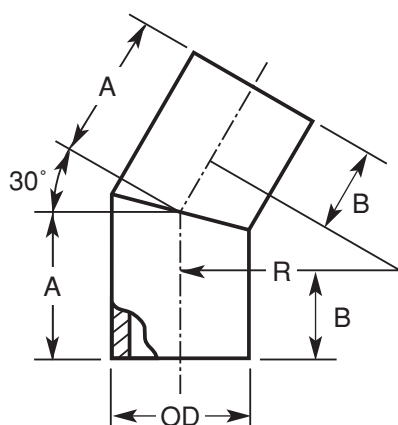
SDR rating to be specified

Full range of angles from 5° to 45° available on request

## PE100 SEGMENTED BEND 30°

## COURBE SEGMENTEE EN PE100 30°

CNC Butt Welded



CODE	OD	A	B	R
SB..09030	90	135	100	135
SB..11030	110	143	150	165
SB..12530	125	199	150	188
SB..14030	140	205	150	210
SB..16030	160	213	150	240
SB..18030	180	220	150	270
SB..20030	200	230	150	300
SB..22530	225	241	150	338
SB..25030	250	350	250	375
SB..28030	280	362	250	420
SB..31530	315	428	300	477
SB..35530	355	443	300	533
SB..40030	400	461	300	600
SB..45030	450	481	300	675
SB..50030	500	551	350	750
SB..56030	560	575	350	840
SB..63030	630	603	350	945
SB..71030	710	631	350	1065
SB..80030	800	666	350	1200
SB..100030	1000	795	400	1500
SB..120030	1200	875	400	1800

SDR rating to be specified

Full range of angles from 5° to 30° available on request



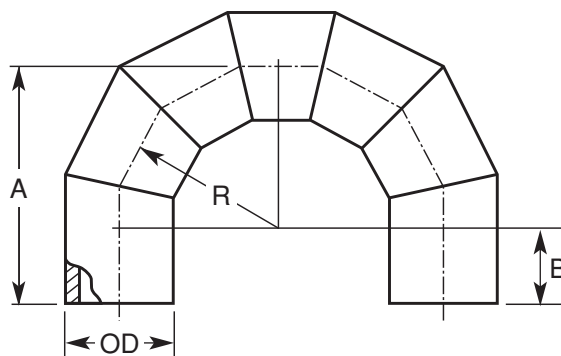


## PE100 SEGMENTED BEND 180°

## COURBE SEGMENTEE EN PE100 180°

CNC Butt Welded

CODE	OD	A	B	R
SB..090180	90	235	100	135
SB..110180	110	265	100	165
SB..125180	125	338	150	188
SB..140180	140	360	150	210
SB..160180	160	390	150	240
SB..180180	180	420	150	270
SB..200180	200	450	150	300
SB..225180	225	488	150	338
SB..250180	250	625	150	375
SB..280180	280	670	150	420
SB..315180	315	777	300	477
SB..355180	355	833	300	533
SB..400180	400	900	300	600
SB..450180	450	975	300	675
SB..500180	500	1100	350	750
SB..560180	560	1190	350	840
SB..630180	630	1295	350	945
SB..710180	710	1415	350	1065
SB..800180	800	1550	350	1200
SB..1000180	1000	1900	400	1500
SB..1200180	1200	2200	400	1800



SDR rating to be specified

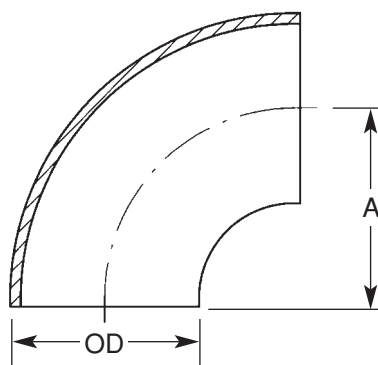
Full range of angles from 5° to 180° available on request

## PE100 MOULDED SHORT RADIUS ELBOWS 90°

## COURBES MOULEES A PETIT RAYON EN PE100 90°

Suitable for butt welding

CODE	OD	A
SRE..02090	20	23
SRE..02590	25	30
SRE..03290	32	34
SRE..04090	40	42
SRE..05090	50	52
SRE..06390	63	66
SRE..07590	75	78
SRE..09090	90	93
SRE..11090	110	115
SRE..12590	125	130
SRE..14090	140	145
SRE..16090	160	167
SRE..18090	180	184
SRE..20090	200	207
SRE..22590	225	232
SRE..25090	250	257
SRE..28090	280	287
SRE..31590	315	322
SRE..35590	355	380
SRE..40090	400	425
SRE..45090	450	450
SRE..50090	500	450

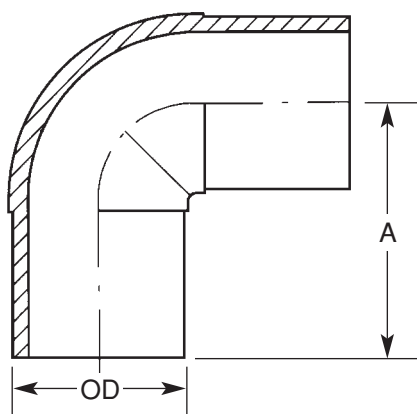


SDR rating to be specified

## PE100 MOULDED LONG SPIGOT - 90° ELBOWS

## LONG PORTE-TUYAU MOULE EN PE100 – COUDES 90°

Suitable for electrofusion or butt welding



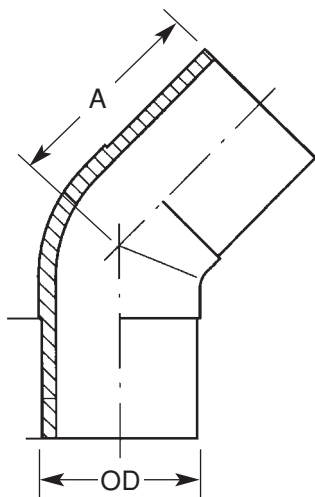
CODE	OD	A
EFE02590	25	80
EFE03290	32	73
EFE04090	40	83
EFE05090	50	93
EFE06390	63	109
EFE07590	75	135
EFE09090	90	129
EFE11090	110	149
EFE12590	125	165
EFE16090	160	190
EFE18090	180	
EFE20090	200	220
EFE22590	225	239
EFE25090	250	307
EFE28090	280	336
EFE31590	315	372

SDR rating to be specified

## PE100 MOULDED LONG SPIGOT - 45° ELBOWS

## LONG PORTE-TUYAU MOULE EN PE100 – COUDES 45°

Suitable for electrofusion or butt welding



CODE	OD	A
EFE02545	25	48
EFE03245	32	57
EFE04045	40	63
EFE05045	50	70
EFE06345	63	80
EFE07545	75	95
EFE09045	90	104
EFE11045	110	108
EFE12545	125	133
EFE16045	160	157
EFE18045	180	
EFE20045	200	171
EFE22545	225	183
EFE25045	250	219
EFE28045	280	244
EFE31545	315	256

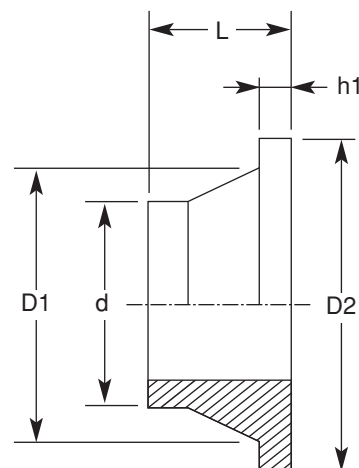
SDR rating to be specified



## PE100 STUB FLANGES - Commercial Dimensions AUS/NZ COLLETS PORTE-BRIDES EN PE100 - DIMENSIONS COMMERCIALES AUS/NZ

CODE	d mm	D1 mm	D2 mm	L mm	h1 mm
ST..063	63	75	95	50	15
ST..075	75	88	108	50	15
ST..090	90	103	129	80	17
ST..110	110	124	158	80	18
ST..125	125	128	158	80	25
ST..140	140	151	187	80	25
ST..160	160	168	213	80	25
ST..180	180	190	213	80	30
ST..200	200	225	270	95	30
ST..225	225	230	270	95	30
ST..250	250	284	322	100	35
ST..280	280	294	334	100	35
ST..315	315	335	380	105	35
ST..355	355	366	442	110	40
ST..400	400	420	495	110	45
ST..450	450	470	545	110	45
ST..500	500	520	596	125	60
ST..560	560	580	657	125	60
ST..630	630	650	710	130	60
ST..710	710	735	800	130	60
ST..800	800	825	940	130	60
ST..900	900	940	1050	130	60
ST..1000	1000	1025	1125	130	60
ST..1200	1200	1230	1330	170	80
ST..1400	1400	1450	1570	210	110
ST..1600	1600	1650	1780	220	120
ST..1800	1800	1850	1970	230	130
ST..2000	2000	2050	2200	250	150

For butt welding



SDR rating to be specified

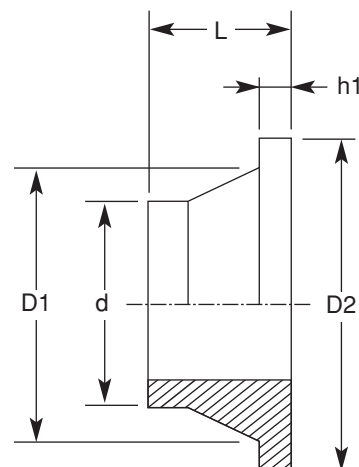
## PE100 STUB FLANGES - ISO STANDARDS

## COLLETS PORTE-BRIDES EN PE100 - NORMES ISO

For butt welding

CODE	d mm	D1 mm	D2 mm	L mm	h1 mm
ST..2501 ISO	250	285	320	105	40
ST..2801 ISO	280	291	320	105	40
ST..3151 ISO	315	335	370	105	40
ST..3551 ISO	355	373	430	110	45
ST..4001 ISO	400	427	482	115	50
ST..4501 ISO	450	514	585	125	60
ST..5001 ISO	500	530	585	125	60
ST..5601 ISO	560	615	685	125	60
ST..6301 ISO	630	642	685	125	60
ST..7101 ISO	710	737	800	125	60
ST..8001 ISO	800	840	905	125	60
ST..9001 ISO	900	944	1005	130	60
ST..10001 ISO	1000	1047	1110	125	60
ST..12001 ISO	1200	1230	1305	170	80
ST..14001 ISO	1400	1440	1535	210	110
ST..16001 ISO	1600	1650	1760	220	120
ST..18001 ISO	1800	1860	1965	230	130
ST..20001 ISO	2000	2060	2165	250	150

SDR rating to be specified





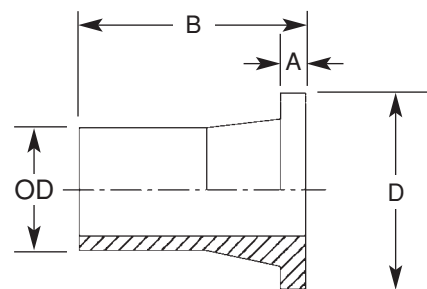


## PE100 STUB FLANGES - EXTENDED LEG

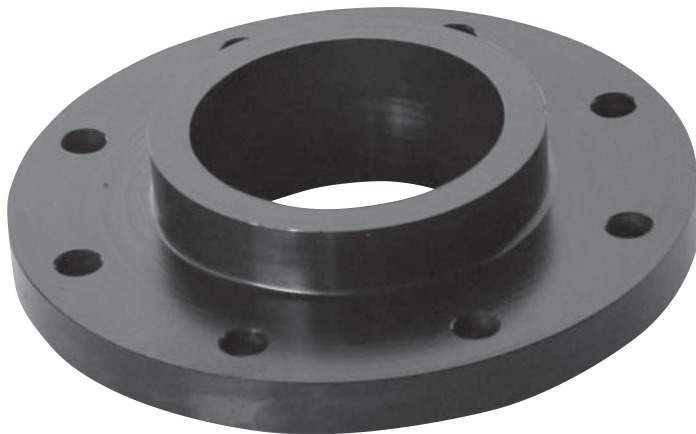
## COLLETS PORTE-BRIDES EN PE100 - EMBRANCHEMENT RALLONGE

Suitable for electrofusion or butt welding

CODE	OD	D	A	B
EFST..025	25	54	9	85
EFST..032	32	65	10	85
EFST..040	40	73	11	85
EFST..050	50	84	13	104
EFST..063	63	95	16	120
EFST..075	75	108	18	130
EFST..090	90	129	20	140
EFST..110	110	158	21	140
EFST..125	125	158	28	180
EFST..140	140	188	29	180
EFST..160	160	212	29	180
EFST..180	180	212	30	170
EFST..200	200	268	32	195
EFST..225	225	268	32	200
EFST..250	250	320	35	210
EFST..280	280	320	35	225
EFST..315	315	370	35	235
EFST..355	355	430	40	260
EFST..400	400	482	45	285



SDR rating to be specified



Full face butt weld stub flange  
Size and table to be specified



Shouldered end cap  
Size to be specified

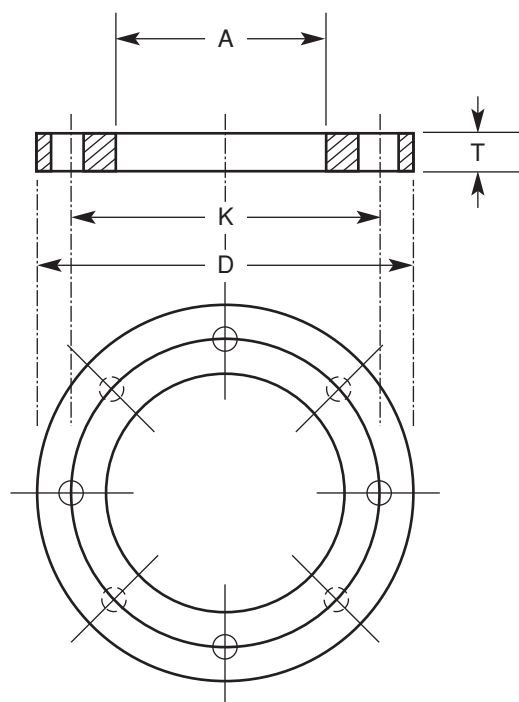
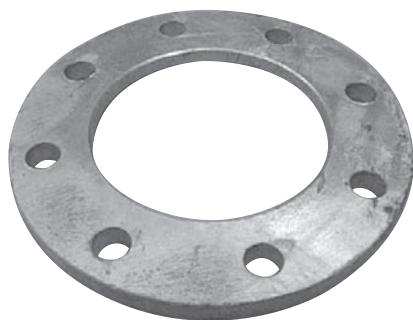


Full face HDPE blind flanges  
Size and table to be specified

**BACKING RINGS - TABLE D**
**CONTRE-JOINTS - TABLEAU D**

Galvanised Steel - Stainless Steel available

CODE	PIPE OD	K	D	A	T Galv St.	T St. St.	BOLT HOLES No. x DIA	BOLT
BRDE020	20	67	95	32	6	6	4x14	M12
BRDE025	25	73	100	37	6	6	4x14	M12
BRDE032	32	83	115	44	6	6	4x14	M12
BRDE040	40	87	120	52	6	6	4x14	M12
BRDE050	50	98	135	62	8	8	4x14	M12
BRDE063	63	114	150	78	8	8	4x18	M16
BRDE075	75	127	165	92	8	8	4x18	M16
BRDE090	90	146	185	108	10	8	4x18	M16
BRD110	110	178	215	128	10	8	4x18	M16
BRD125	125	210	255	140	13	8	8x18	M16
BRD140	140	210	255	158	13	10	8x18	M16
BRD160	160	235	280	178	13	10	8x18	M16
BRD180	180	235	280	195	13	10	8x18	M16
BRD200	200	292	335	235	13	12	8x18	M16
BRD225	225	292	335	240	13	12	8x18	M16
BRD250	250	356	405	290	16	12	8x22	M20
BRD280	280	356	405	300	16	12	8x22	M20
BRD315	315	406	455	345	19	16	12x22	M20
BRD355	355	470	525	376	22	16	12x26	M24
BRD400	400	521	580	430	22	20	12x26	M24
BRD450	450	584	640	480	25	20	12x26	M24
BRD500	500	641	705	533	29	25	16x26	M24
BRD560	560	699	760	590	32	25	16x30	M27
BRD630	630	756	825	660	32	—	16x30	M27
BRD710	710	845	910	745	35	—	20x30	M27
BRD800	800	984	1060	835	41	—	20x36	M33
BRD900	900	1092	1175	950	48	—	24x36	M33
BRD1000	1000	1175	1255	1035	51	—	24x36	M33
BRD1200	1200	1410	1490	1240	60	—	32x36	M33
BRD1400	1400	1615	1700	1460	60	—	36x36	M33
BRD1600	1600	1825	1910	1660	64	—	40x39	M36
BRD1800	1800	2019	2110	1860	73	—	44x42	M39
BRD2000	2000	2250	2345	2060	76	—	44x42	M39

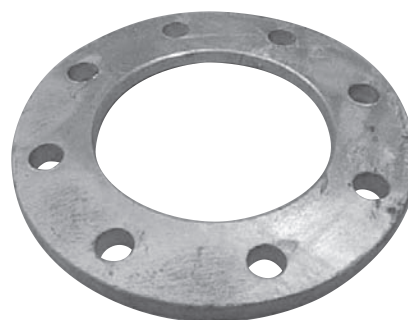
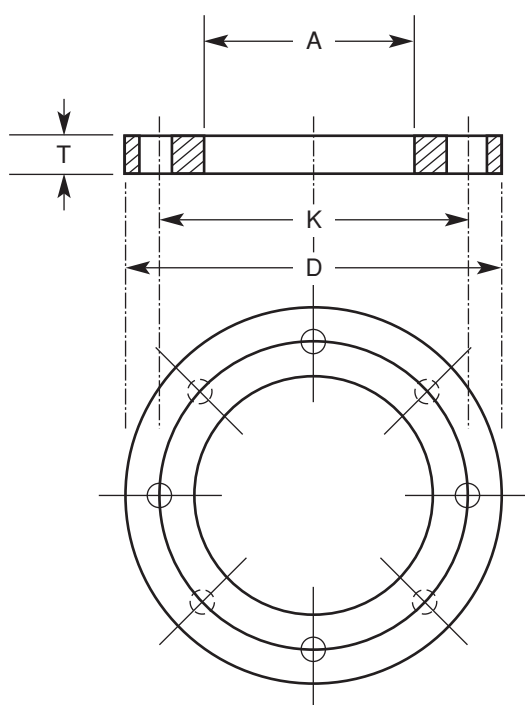


## BACKING RINGS - TABLE E

## CONTRE-JOINTS - TABLEAU E

Galvanised Steel - Stainless Steel available

CODE	PIPE OD	K	D	A	T Galv St.	T St. St.	BOLT HOLES No. x DIA	BOLT
BRDE020	20	67	95	32	6	—	4x14	M12
BRDE025	25	73	100	37	6	6	4x14	M12
BRDE032	32	83	115	44	7	6	4x14	M12
BRDE040	40	87	120	52	8	6	4x14	M12
BRDE050	50	98	135	62	9	8	4x14	M12
BRDE063	63	114	150	78	10	8	4x18	M16
BRDE075	75	127	165	92	10	8	4x18	M16
BRDE090	90	146	185	108	12	8	4x18	M16
BRE110	110	178	215	128	13	8	8x18	M16
BRE125	125	210	255	140	14	8	8x18	M16
BRE140	140	210	255	158	14	10	8x18	M16
BRE160	160	235	280	178	17	10	8x22	M20
BRE180	180	235	280	195	17	10	8x22	M20
BRE200	200	292	335	235	19	12	8x22	M20
BRE225	225	292	335	240	19	12	8x22	M20
BRE250	250	356	405	290	22	12	12x22	M20
BRE280	280	356	405	300	22	12	12x22	M20
BRE315	315	406	455	345	25	16	12x26	M24
BRE355	355	470	525	376	29	16	12x26	M24
BRE400	400	521	580	430	32	20	12x26	M24
BRE450	450	584	640	480	32	20	16x26	M24
BRE500	500	641	705	533	38	25	16x26	M24
BRE560	560	699	760	590	44	32	16x30	M27
BRE630	630	756	825	660	48	32	16x33	M30
BRE710	710	845	910	745	51	—	20x33	M30
BRE800	800	984	1060	835	54	—	20x36	M33
BRE1000	1000	1175	1255	1035	67	—	24x39	M36
BRE1200	1200	1410	1490		79		32X39	M36





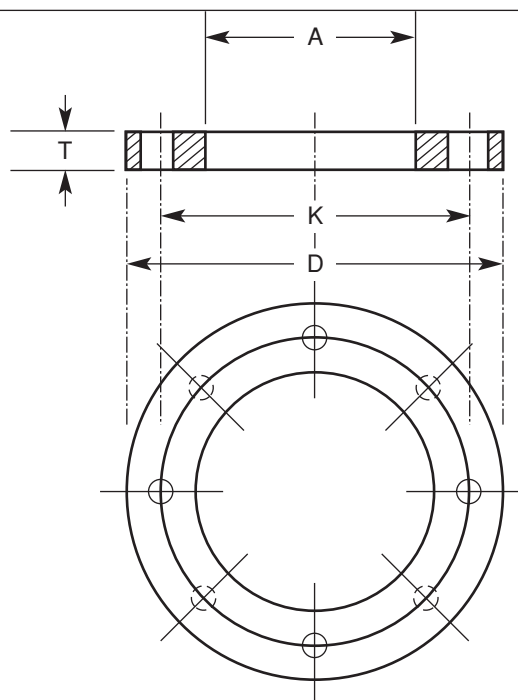
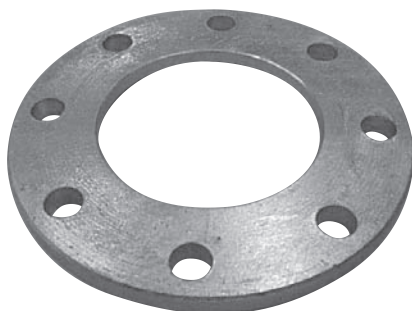


## BACKING RINGS A.N.S.I.

## CONTRE-JOINTS - A.N.S.I.

Galvanised Steel A.N.S.I. 150 - Stainless Steel available

CODE	ND Imp	PIPE OD	K	D	A	T Galv St.	T St. St.	BOLT HOLES No. x DIA	BOLT
BRA020	1/2"	20	60.5	90	32	6	6	4x16	1/2"
BRA025	3/4"	25	70	98	37	8	6	4x16	1/2"
BRA032	1"	32	79.5	108	44	8	6	4x16	1/2"
BRA040	1 1/4"	40	89	117	52	8	6	4x16	1/2"
BRA050	1 1/2"	50	98.5	127	62	10	8	4x16	1/2"
BRA063	2"	63	120.5	152	78	10	8	4x20	5/8"
BRA075	2 1/2"	75	139.5	178	92	10	8	4x20	5/8"
BRA090	3"	90	152	191	108	12	8	4x20	5/8"
BRA110	4"	110	190.5	229	128	12	8	8x20	5/8"
BRA125	5"	125	216	254	140	16	8	8x23	3/4"
BRA140	5"	140	216	254	158	16	10	8x23	3/4"
BRA160	6"	160	241	279	178	16	10	8x23	3/4"
BRA180	6"	180	241	279	195	16	10	8x23	3/4"
BRA200	8"	200	298.5	343	235	20	12	8x23	3/4"
BRA225	8"	225	298.5	343	240	20	12	8x23	3/4"
BRA250	10"	250	362	406	290	20	12	12x26	7/8"
BRA280	10"	280	362	406	300	20	12	12x26	7/8"
BRA315	12"	315	432	483	345	25	16	12x26	7/8"
BRA355	14"	355	476	535	376	28	16	12x29	1"
BRA400	16"	400	540	600	430	32	20	16x29	1"
BRA450	18"	450	578	635	480	36	20	16x32	1 1/8"
BRA500	20"	500	635	700	533	40	25	20x32	1 1/8"
BRA560	22"	560	692	750	590	46	32	20x35	1 1/4"
BRA630	24"	630	749	813	660	50	32	20x35	1 1/4"
BRA710	28"	710	863.5	927	745	71		28x35	
BRA800	32"	800	978	1060	835	81		28x41	
BRA1000	40"	1000	1124	1290	1030	90		36x41	1 1/2"
BRA1200	48"	1200	1422.5	1510	1235	108		44x41	1 1/2"
BRA1400	54"	1400	1594	1683		120		44x48	1 3/4"
BRA1600		1400	Made to order						
BRA1800		1800	"						
BRA2000		2000	"						

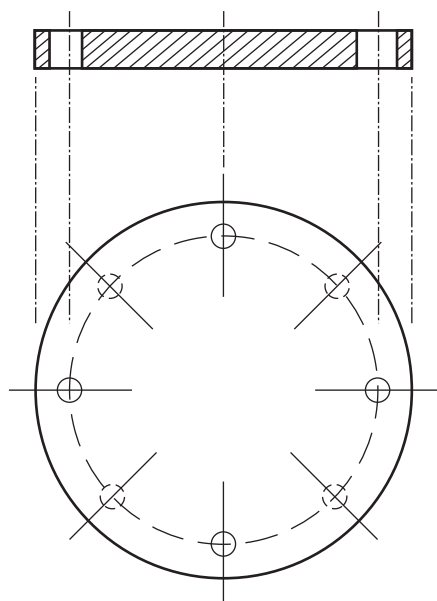




## BLIND FLANGES

## BRIDES AVEUGLES

Blind Flanges in Galvanised Steel, Stainless Steel or Polyethylene



## SPECIAL BACKING RINGS

## CONTRE-JOINTS SUR MESURE

Backing Rings can be supplied, to customers particular dimensional requirements.

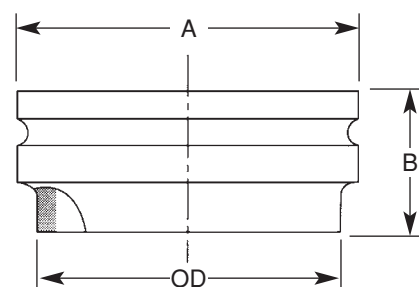
## PE100 SHOULDERED ENDS

## EMBOUTS EPAULES EN PE100

For butt welding - shouldered ends for electrofusion welding also available

CODE	OD	A	B	COUPLING SIZE
SE..063	63	68	55	2 <sup>3</sup> / <sub>8</sub> "
SE..075	75	97	70	3 <sup>1</sup> / <sub>2</sub> "
SE..090	90	97	85	3 <sup>1</sup> / <sub>2</sub> "
SE..110	110	122	85	4 <sup>1</sup> / <sub>2</sub> "
SE..125	125	176	80	6 <sup>1</sup> / <sub>2</sub> "
SE..140	140	176	80	6 <sup>1</sup> / <sub>2</sub> "
SE..160	160	176	85	6 <sup>1</sup> / <sub>2</sub> "
SE..200	200	235	90	8 <sup>5</sup> / <sub>8</sub> "
SE..225	225	235	90	8 <sup>5</sup> / <sub>8</sub> "
SE..250	250	287	95	10 <sup>3</sup> / <sub>4</sub> "
SE..280	280	338	105	12 <sup>3</sup> / <sub>4</sub> "
SE..315	315	338	95	12 <sup>3</sup> / <sub>4</sub> "
SE..355	355	370	100	14"
SE..400	400	420	100	16"
SE..450	450	472	100	18"
SE..500	500	522	100	20"

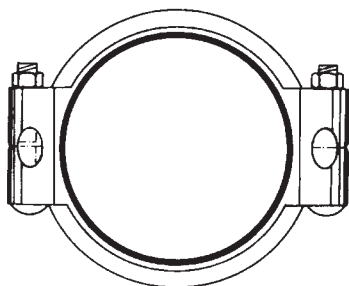
SDR rating to be specified





## COUPLINGS FOR SHOULDERED ENDS

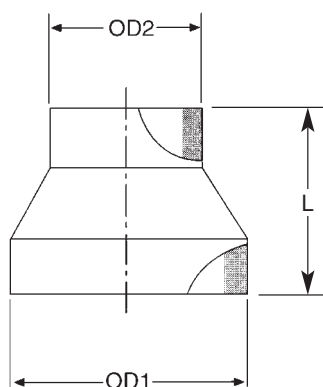
## COLLIERS POUR EMBOUTS EPAULES



CODE	FOR PIPE SIZE mm	COUPLING SIZE *(nom)
VC063	63	2 <sup>3</sup> / <sub>8</sub> "
VC07590	75+ 90	3 <sup>1</sup> / <sub>2</sub> "
VC110	110	4 <sup>1</sup> / <sub>2</sub> "
VC125140160	+125+140+160	6 <sup>1</sup> / <sub>2</sub> "
VC200225	200+225	8 <sup>5</sup> / <sub>8</sub> "
VC250	250	10 <sup>3</sup> / <sub>4</sub> "
VC280315	280+315	12 <sup>3</sup> / <sub>4</sub> "
VC355	355	14"
VC400	400	16"

## PE100 CONCENTRIC REDUCERS

## REDUCTIONS CONCENTRIQUES EN PE100



Concentric for butt welding



CODE	OD1	OD2	L
R..03220	32	20	50
R..03225	32	25	50
R..04025	40	25	40
R..04032	40	32	40
R..05025	50	25	50
R..05032	50	32	50
R..05040	50	40	50
R..06332	63	32	60
R..06340	63	40	60
R..06350	63	50	60
R..07540	75	40	70
R..07550	75	50	70
R..07563	75	63	85
R..09040	90	40	100
R..09050	90	50	75
R..09063	90	63	75
R..09075	90	75	75
R..11040	110	40	105
R..11050	110	50	90
R..11063	110	63	105
R..11075	110	75	95
R..11090	110	90	100
R..12540	125	40	110
R..12550	125	50	110
R..12563	125	63	120
R..12575	125	75	100

CODE	OD1	OD2	L
R..12590	125	90	110
R..125110	125	110	102
R..14040	140	40	110
R..14050	140	50	110
R..14063	140	63	110
R..14075	140	75	110
R..14090	140	90	110
R..140110	140	110	110
R..140125	140	125	110
R..16040	160	40	120
R..16050	160	50	120
R..16063	160	63	120
R..16075	160	75	120
R..16090	160	90	140
R..160110	160	110	128
R..160125	160	125	122
R..160140	160	140	120
R..18050	180	50	120
R..18063	180	63	120
R..18075	180	75	120
R..18090	180	90	143
R..180110	180	110	130
R..180125	180	125	143
R..180140	180	140	130
R..180160	180	160	130
R..20050	200	50	120
R..20063	200	63	120
R..20075	200	75	120
R..20090	200	90	120
R..200110	200	110	120
R..200125	200	125	120

CODE	OD1	OD2	L
R..200140	200	140	120
R..200160	200	160	120
R..200180	200	180	120
R..22590	225	90	120
R..225110	225	110	120
R..225125	225	125	120
R..225140	225	140	115
R..225160	225	160	115
R..225180	225	180	115
R..225200	225	200	115
R..25090	250	90	120
R..250110	250	110	120
R..250125	250	125	120
R..250140	250	140	115
R..250160	250	160	115
R..250180	250	180	115
R..250200	250	200	115
R..250225	250	225	115
R..28090	280	90	120
R..280110	280	110	120
R..280125	280	125	120
R..280140	280	140	115
R..280160	280	160	115
R..280180	280	180	115
R..280200	280	200	115
R..280225	280	225	115
R..280250	280	250	115
R..31590	315	90	120
R..315110	315	110	120
R..315125	315	125	120
R..315140	315	140	120





## PE100 CONCENTRIC REDUCERS (continued)

## REDUCTIONS CONCENTRIQUES EN PE100 (suite)

CODE	OD1	OD2	L
R..315160	315	160	120
R..315180	315	180	120
R..315200	315	200	120
R..315225	315	225	120
R..315250	315	250	120
R..315280	315	280	120
R..35590	355	90	120
R..355110	355	110	120
R..355125	355	125	120
R..355140	355	140	120
R..355160	355	160	120
R..355180	355	180	120
R..355200	355	200	120
R..355225	355	225	120
R..355250	355	250	120
R..355280	355	280	120
R..355315	355	315	120
R..40090	400	90	125
R..400110	400	110	125
R..400125	400	125	125
R..400140	400	140	125
R..400160	400	160	125
R..400180	400	180	125
R..400200	400	200	125
R..400225	400	225	125
R..400250	400	250	125
R..400280	400	280	125
R..400315	400	315	125

CODE	OD1	OD2	L
R..400355	400	355	125
R..450160	450	160	125
R..450180	450	180	125
R..450200	450	200	125
R..450225	450	225	125
R..450250	450	250	125
R..450280	450	280	125
R..450315	450	315	125
R..450355	450	355	125
R..500200	500	200	125
R..500225	500	225	125
R..500250	500	250	125
R..500280	500	280	125
R..500315	500	315	125
R..500355	500	355	125
R..500400	500	400	125
R..500450	500	450	125
R..560250	560	250	125
R..560280	560	280	125
R..560315	560	315	125
R..560355	560	355	125
R..560400	560	400	125
R..560450	560	450	125
R..560500	560	500	125
R..630250	630	250	125
R..630280	630	280	125
R..630315	630	315	125
R..630355	630	355	125

CODE	OD1	OD2	L
R..630400	630	400	125
R..630450	630	450	125
R..630500	630	500	125
R..630560	630	560	125
R..710355	710	355	125
R..710400	710	400	125
R..710450	710	450	125
R..710500	710	500	125
R..710560	710	560	125
R..710630	710	630	125
R..800400	800	400	125
R..800450	800	450	125
R..800500	800	500	125
R..800560	800	560	125
R..800630	800	630	125
R..800710	800	710	125
R..1000500	1000	500	125
R..1000560	1000	560	125
R..1000630	1000	630	125
R..1000710	1000	710	125
R..1000800	1000	800	125
R..1000900	1000	900	125
R..1200630	1200	630	130
R..1200710	1200	710	130
R..1200800	1200	800	130
R..1200900	1200	900	130
R..12001000	1200	1000	130

SDR rating to be specified

- Up to 2000mm Reducer available

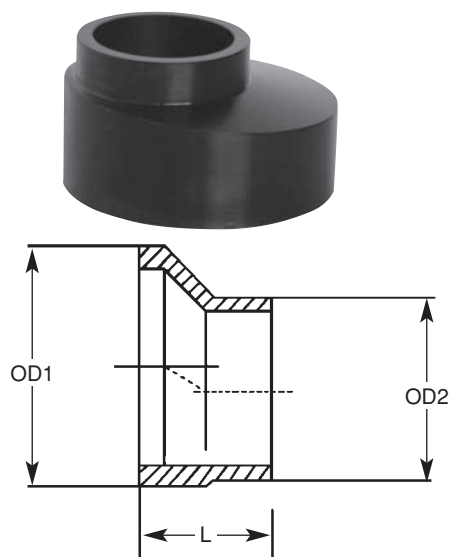
Larger sizes available on request





## PE100 ECCENTRIC REDUCERS

## REDUCTIONS EXCENTRIQUES EN PE100



SDR rating to be specified

For butt welding

Can be modified to suit electrofusion

CODE	OD1	OD2	L
R..5025	50	25	100
R..5032	50	32	100
R..5040	50	40	100
R..6332	63	32	100
R..6340	63	40	100
R..6350	63	50	100
R..7540	75	40	100
R..7550	75	50	100
R..7563	75	63	100
R..9040	90	40	100
R..9050	90	50	100
R..9063	90	63	100
R..9075	90	75	100
R..11050	110	50	100
R..11063	110	63	100
R..11075	110	75	100
R..11090	110	90	100
R..12550	125	50	100
R..12563	125	63	100
R..12575	125	75	100
R..12590	125	90	100
R..125110	125	110	100
R..14050	140	50	100
R..14063	140	63	100
R..14075	140	75	100
R..14090	140	90	100
R..140110	140	110	100
R..140125	140	125	100
R..16050	160	50	110
R..16063	160	63	110
R..16075	160	75	110
R..16090	160	90	110
R..160110	160	110	110
R..160125	160	125	110
R..160140	160	140	110
R..18050	180	50	110
R..18063	180	63	110
R..18075	180	75	110
R..18090	180	90	110

CODE	OD1	OD2	L
R..180110	180	110	110
R..180125	180	125	110
R..180140	180	140	110
R..180160	180	160	110
R..20050	200	50	115
R..20063	200	63	115
R..20075	200	75	115
R..20090	200	90	115
R..200110	200	110	115
R..200125	200	125	115
R..200140	200	140	115
R..200160	200	160	115
R..200180	200	180	115
R..22590	225	90	115
R..225110	225	110	115
R..225125	225	125	115
R..225140	225	140	115
R..225160	225	160	115
R..225180	225	180	115
R..225200	225	200	115
R..25090	250	90	115
R..250110	250	110	115
R..250125	250	125	120
R..250140	250	140	120
R..250160	250	160	120
R..250180	250	180	120
R..250200	250	200	120
R..250225	250	225	120
R..28090	280	90	120
R..280110	280	110	120
R..280125	280	125	120
R..280140	280	140	120
R..280160	280	160	120
R..280180	280	180	120
R..280200	280	200	120
R..280225	280	225	120
R..280250	280	250	120
R..31590	315	90	120
R..315110	315	110	120
R..315125	315	125	120
R..315140	315	140	120
R..315160	315	160	120
R..315180	315	180	120
R..315200	315	200	120
R..315225	315	225	120
R..315250	315	250	120
R..315280	315	280	120
R..35590	355	90	125
R..355110	355	110	125
R..355125	355	125	125
R..355140	355	140	125
R..355160	355	160	125
R..355180	355	180	125
R..355200	355	200	125
R..355225	355	225	125
R..355250	355	250	125
R..355280	355	280	125
R..355315	355	315	125
R..40090	400	90	130
R..400110	400	110	130
R..400125	400	125	130
R..400140	400	140	130

CODE	OD1	OD2	L
R..400160	400	160	130
R..400180	400	180	130
R..400200	400	200	130
R..400225	400	225	130
R..400250	400	250	130
R..400280	400	280	130
R..400315	400	315	130
R..400355	400	355	130
R..450160	450	160	135
R..450180	450	180	135
R..450200	450	200	135
R..450225	450	225	135
R..450250	450	250	135
R..450280	450	280	135
R..450315	450	315	135
R..450355	450	355	135
R..500200	500	200	145
R..500225	500	225	145
R..500250	500	250	145
R..500280	500	280	145
R..500315	500	315	145
R..500355	500	355	145
R..500400	500	400	145
R..500450	500	450	145
R..560250	560	250	145
R..560280	580	280	145
R..560315	560	315	145
R..560355	560	355	145
R..560400	560	400	145
R..560450	560	450	145
R..560500	560	500	145
R..630250	630	250	145
R..630280	630	280	145
R..630315	630	315	145
R..630355	630	355	145
R..630400	630	400	145
R..630450	630	450	145
R..630500	630	500	145
R..630560	630	560	145
R..710355	710	355	145
R..710400	710	400	145
R..710450	710	450	145
R..710500	710	500	145
R..710560	710	560	145
R..710630	710	630	145
R..800400	800	400	145
R..800450	800	450	145
R..800500	800	500	145
R..800560	800	560	145
R..800630	800	630	145
R..800710	800	710	145
R..1000500	1000	500	145
R..1000560	1000	560	145
R..1000630	1000	630	145
R..1000710	1000	710	145
R..1000800	1000	800	145
R..1000900	1000	900	145
R..1200630	1200	630	150
R..1200710	1200	710	150
R..1200800	1200	800	150
R..1200900	1200	900	150
R..12001000	1200	1000	150



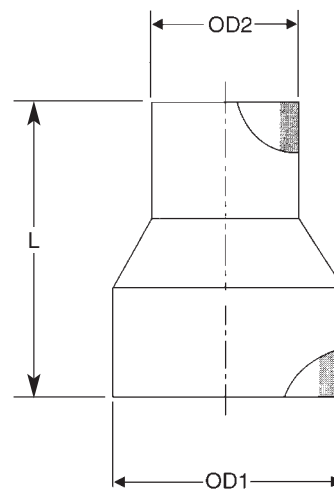
## PE100 LONG SPIGOT CONCENTRIC REDUCERS

## REDUCTIONS CONCENTRIQUES A LONG PORTE-TUYAU EN PE100

Suitable for electrofusion or butt welding

CODE	OD1	OD2	L
EFR02520	25	20	95
EFR03220	32	20	105
EFR03225	32	25	105
EFR04020	40	20	115
EFR04025	40	25	115
EFR04032	40	32	115
EFR05025	50	25	130
EFR05032	50	32	132
EFR05040	50	40	134
EFR06332	63	32	142
EFR06340	63	40	146
EFR06350	63	50	150
EFR07550	75	50	150
EFR07563	75	63	166
EFR09050	90	50	180
EFR09063	90	63	182
EFR09075	90	75	185
EFR11063	110	63	185
EFR11075	110	75	185
EFR11090	110	90	185
EFR12563	125	63	200
EFR12590	125	90	200
EFR125110	125	110	200
EFR140125	140	125	230
EFR16090	160	90	248
EFR160110	160	110	245
EFR160125	160	125	245
EFR160140	160	140	260
EFR180125	180	125	245
EFR180160	180	160	270

CODE	OD1	OD2	L
EFR200160	200	160	275
EFR225140	225	140	295
EFR225160	225	160	295
EFR225180	225	180	290
EFR250160	250	160	290
EFR250180	250	180	295
EFR250200	250	200	302
EFR250225	250	225	310
EFR280200	280	200	333
EFR280225	280	225	335
EFR280250	280	250	340
EFR315225	315	225	365
EFR315250	315	250	365
EFR315280	315	280	365



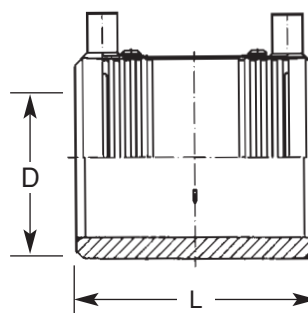
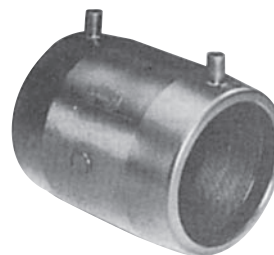
SDR rating to be specified

## PE SOCKET ELECTROFUSION

## EMBOITEMENT ELECTROSOUDABLE EN PE

CODE	D	L
EFS020	20	71
EFS025	25	71
EFS032	32	80
EFS040	40	90
EFS050	50	110
EFS063	63	118
EFS075	75	126
EFS090	90	146
EFS110	110	163
EFS125	125	173
EFS140	140	182
EFS160	160	194
EFS180	180	211
EFS200	200	223
EFS225	225	223
EFS250	250	223
EFS280	280	260
EFS315	315	260
EFS355	355	260
EFS400	400	
EFS450	450	
EFS500	500	
EFS560	560	
EFS630	630	

39.5 volt system: SDR 17-11

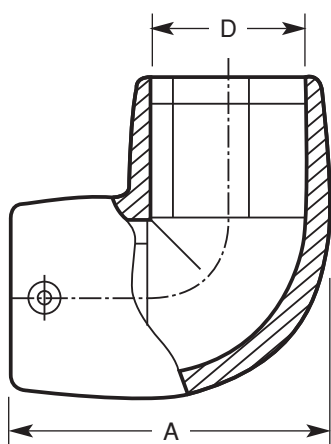




## PE 90° ELBOWS ELECTROFUSION

## COUDES 90° ELECTROSOUDABLES EN PE

39.5 volt system: SDR 17-11

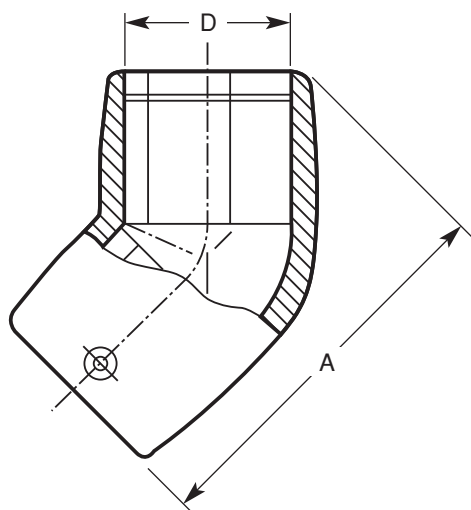
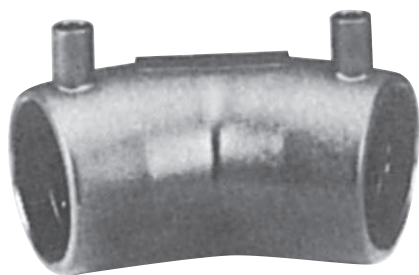


CODE	D	A
EFES02590	25	84
EFES03290	32	79
EFES04090	40	93
EFES05090	50	109
EFES06390	63	132
EFES07590	75	150
EFES09090	90	203
EFES11090	110	236
EFES12590	125	242
EFES16090	160	318

## PE 45° ELBOWS ELECTROFUSION

## COUDES 45° ELECTROSOUDABLES EN PE

39.5 volt system: SDR 17-11



CODE	D	A
EFES03245	32	108
EFES04045	40	108
EFES05045	50	124
EFES06345	63	149
EFES07545	75	165
EFES09045	90	231
EFES11045	110	260
EFES12545	125	236
EFES16045	160	320



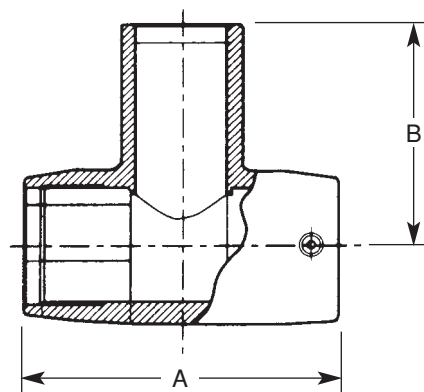
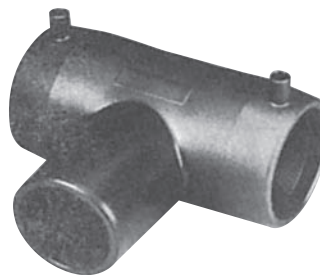


## PE EQUAL TEES ELECTROFUSION

## TES EGAUX ELECTROSOUDABLES EN PE

39.5 volt system: SDR 17-11

CODE	D	A	B
EFTS025	25		
EFTS032	32	104	74
EFTS040	40	121	96
EFTS050	50	139	102
EFTS063	63	166	119
EFTS075	75	187	126
EFTS090	90	293	137
EFTS110	110	328	160
EFTS125	125	368	168
EFTS160	160	372	231

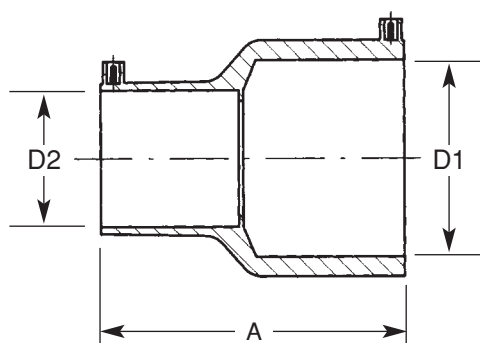
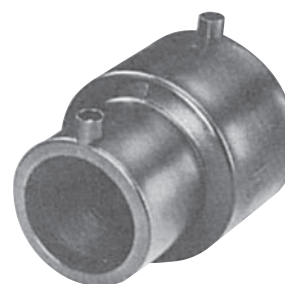


## PE REDUCING SOCKET ELECTROFUSION

## EMBOITEMENT REDUIT ELECTROSOUDABLE EN PE

39.5 volt system: SDR 17-11

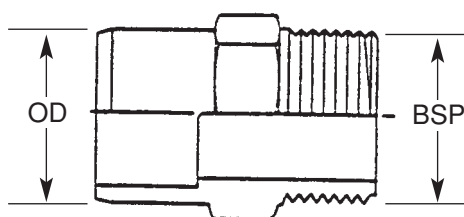
CODE	D1	D2	A
EFRS02520	25	20	66
EFRS03220	32	20	80
EFRS03225	32	25	66
EFRS04032	40	32	90
EFRS06332	63	32	97
EFRS06340	63	40	97
EFRS06350	63	50	97
EFRS09063	90	63	153
EFRS11090	110	90	181
EFRS12590	125	90	181
EFRS125110	125	110	190
EFRS160110	160	110	226
EFRS250225	250	225	222



## PE MALE THREADED ADAPTORS

## RACCORDS D'ADAPTATION MALES FILETES EN PE

Electrofusion or butt welding

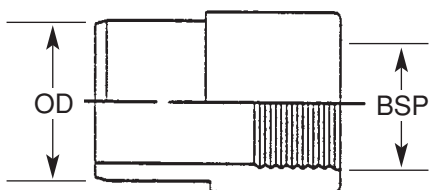


CODE	OD	BSP
EFAM02520	25	$\frac{3}{4}$
EFAM03225	32	1
EFAM04025	40	1
EFAM04032	40	$1\frac{1}{4}$
EFAM04040	40	$1\frac{1}{2}$
EFAM05040	50	$1\frac{1}{2}$
EFAM06350	63	2
EFAM06365	63	$2\frac{1}{2}$
EFAM07565	75	$2\frac{1}{2}$
EFAM09080	90	3
EFAM110100	110	4

## PE FEMALE THREADED ADAPTORS

## RACCORDS D'ADAPTATION FEMELLES FILETES EN PE

Electrofusion or butt welding



CODE	OD	BSP
EFAF02015	20	$\frac{1}{2}$
EFAF02520	25	$\frac{3}{4}$
EFAF03225	32	1
EFAF04032	40	$1\frac{1}{4}$
EFAF05040	50	$1\frac{1}{2}$
EFAF06350	63	2
EFAF07565	75	$2\frac{1}{2}$
EFAF09080	90	3
EFAF110100	110	4



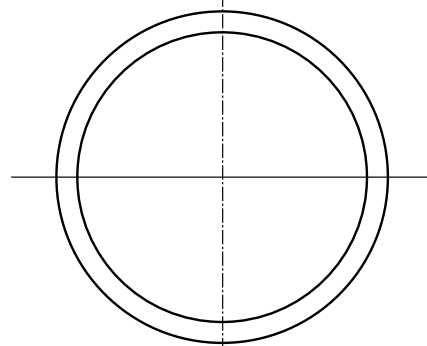
## PE100 END CAPS

## CHAPEAUX EN PE100

Butt welded end caps

CODE	OD
EC..20	20
EC..25	25
EC..32	32
EC..40	40
EC..50	50
EC..63	63
EC..75	75
EC..90	90
EC..110	110
EC..125	125
EC..140	140
EC..160	160
EC..180	180
EC..200	200
EC..225	225

CODE	OD
EC..250	250
EC..280	280
EC..315	315
EC..355	355
EC..400	400
EC..450	450
EC..500	500
EC..560	560
EC..630	630
EC..710	710
EC..800	800
EC..900	900
EC..1000	1000
EC..1200	1200



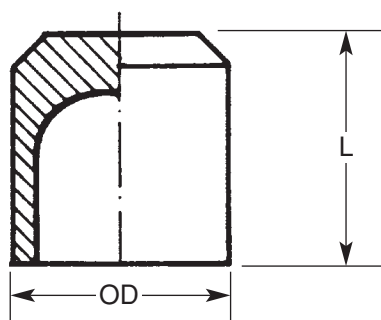
SDR rating to be specified

## PE100 END CAPS - MOULDED - LONG SPIGOT

## CHAPEAUX EN PE100 - MOULES

Electrofusion or butt welding

CODE	OD	L
EFC020	20	41
EFC025	25	50
EFC032	32	55
EFC040	40	61
EFC050	50	70
EFC063	63	82
EFC075	75	92
EFC090	90	106
EFC110	110	120
EFC125	125	126
EFC140	140	136
EFC160	160	150
EFC180	180	160
EFC200	200	175
EFC225	225	200
EFC250	250	205
EFC280	280	235
EFC315	315	255
EFC355	355	228
EFC400	400	310
EFC450	450	
EFC500	500	
EFC560	560	
EFC630	630	



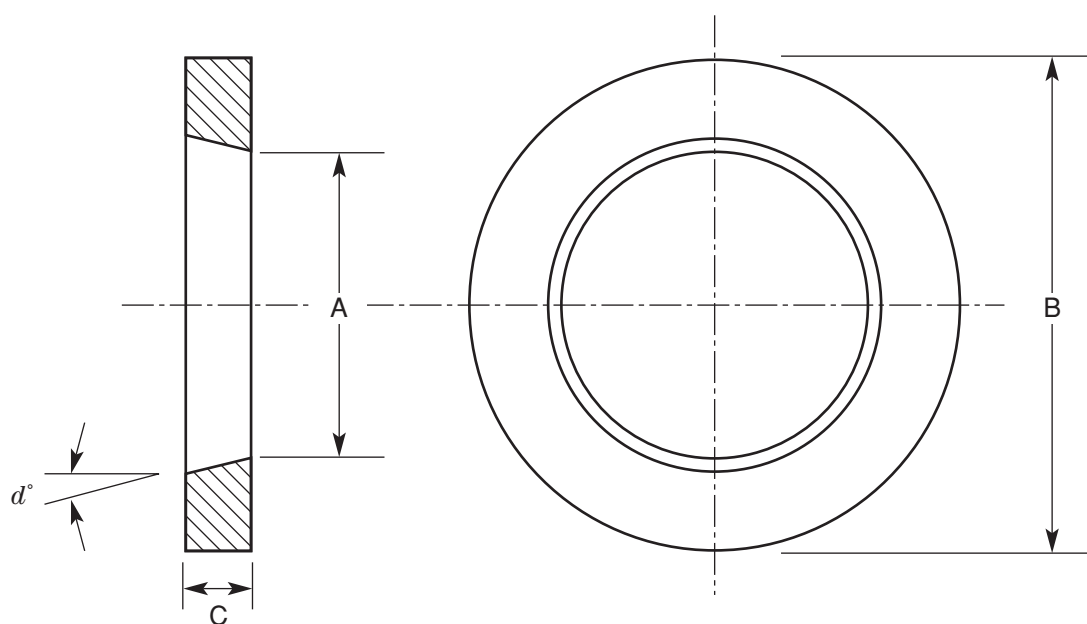
SDR rating to be specified



## PE100 BUTTERFLY VALVE SPACERS

## ENTRETOISES EN PE100 POUR VANNES A PAPILLONS

Butterfly valve nominal bore size, pipe outside diameter, SDR and PN rating to be specified.



CODE	Butterfly Valve NB	Pipe O.D.	SDR 9				SDR 11				SDR 13.6				SDR 17				SDR 21				SDR 26				SDR 33			
			A	B	C	d°	A	B	C	d°	A	B	C	d°	A	B	C	d°	A	B	C	d°	A	B	C	d°	A	B	C	d°
BVS..110	100	110	84	160	14	30	89	160	14	20																				
BVS..125	125	125	96	192	25	30	102	192	25	25	106	192	25	25	110	192	25	20	112	192	25	20								
BVS..140	125	140	106	192	25	25	114	192	25	20	119	192	25	15																
BVS..160	150	160	123	213	25	30	130	213	25	25	136	213	25	20	141	213	25	20												
BVS..200	200	200	154	270	40	35	163	270	40	30	170	270	40	25	176	270	25	30	180	270	25	25	185	270	25	25	188	270	25	20
BVS..225	200	225	173	270	40	25	183	270	25	25	191	270	25	20																
BVS..250	250	250	192	334	60	30	203	334	60	25	212	334	30	35	220	334	30	30	225	334	30	25	231	334	30	25	235	334	30	25
BVS..280	250	280	215	334	40	30	228	334	30	30	238	334	30	25	246	334	30	20												
BVS..315	300	315	242	380	60	35	256	380	60	30	268	380	40	30	277	380	30	30	283	380	30	25	291	380	30	20				
BVS..355	350	355	273	444	100	25	289	444	60	30	302	444	60	25	312	444	40	30	319	444	40	25	328	444	40	25	334	444	40	20
BVS..400	400	400	308	495	100	25	325	495	100	25	340	495	60	30	352	495	40	30	360	495	40	25	370	495	40	25	376	495	40	20
BVS..450	450	450	346	545	100	30	366	545	100	25	382	545	60	30	396	545	60	30	405	545	40	30	416	545	40	25	423	545	40	20
BVS..500	500	500	385	602	100	30	407	602	100	25	425	602	50	30	440	602	50	25	450	602	50	20	462	602	50	20				
BVS..630	600	630					513	708	55	20	535	708	55	25																
BVS..710	700	710									603	812	100	35	625	812	100	25	639	812	60	35	656	812	60	30	667	812	60	20
BVS..800	800	800									680	948	140	30	704	948	100	30	720	948	100	30	739	948	100	25	752	948	60	30
BVS..1000	1000	1000													880	1136	140	30	904	1156	140	30	924	1136	100	30	940	1136	100	25

SDR Rating to be specified





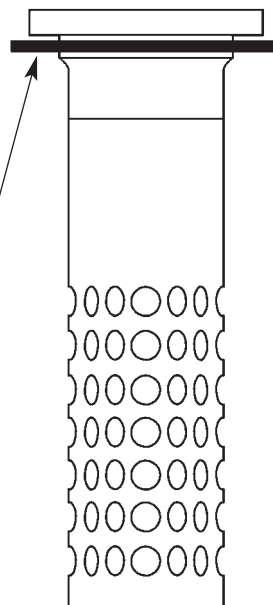
## PE SUCTION STRAINER

## TAMIS D'ASPIRATION EN PE

Fabricated to suit  
customer requirements

From 25mm  
2000mm outside diameter

Backing Ring



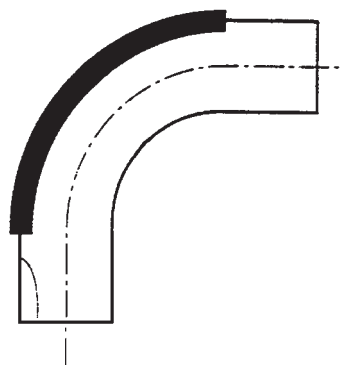


## PE HARD BACK BEND PE100

## COURBE A PAROI DURE EN PE

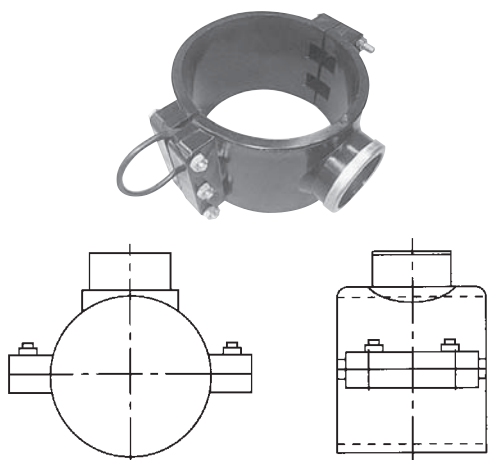


25mm to 1,000mm outside diameter  
For high wear and abrasion installations



## TAPPING SADDLES

## COLLIERS DE PRISE



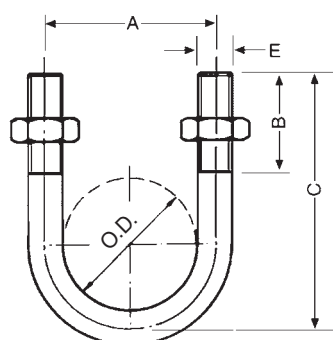
CODE	SIZE
TS06315	63x1/2"
TS06320	63x3/4"
TS06301	63x1"
TS06332	63x1 1/4"
TS06340	63x1 1/2"
TS07520	75x3/4"
TS07501	75x1"
TS07540	75x1 1/2"
TS07502	75x2"
TS09020	90x3/4"
TS09001	90x1"
TS09040	90x1 1/2"
TS09002	90x2"

CODE	SIZE
TS11015	110x1/2"
TS11020	110x3/4"
TS11001	110x1"
TS11032	110x1 1/4"
TS11040	110x1 1/2"
TS11002	110x2"
TS16001	160x1"
TS16040	160x1 1/2"
TS16002	160x2"
TS20002	200x2"
TS20003	200x3"
TS20004	200x4"
TS22502	225x2"

CODE	SIZE
TS22503	225x3"
TS22504	225x4"
TS25002	250x2"
TS25003	250x3"
TS25004	250x4"
TS28002	280x2"
TS28003	280x3"
TS28004	280x4"
TS31502	315x2"
TS31503	315x3"
TS31504	315x4"

## STANDARD U BOLT - Galvanised Steel or Stainless Steel

## BOULON EN U STANDARD - en acier galvanisé ou en acier inoxydable



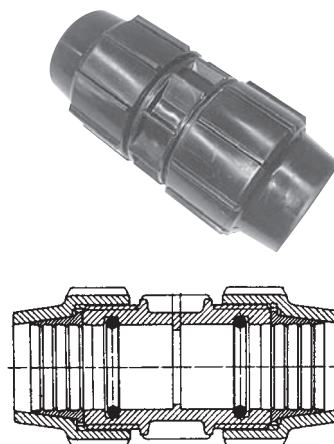
PE PIPE O.D.	U BOLT NOMINAL SIZE	CENTRES A	THREAD LENGTH B	C	THREAD DIA E
20	15NB	30	25	50	M8
25	20NB	35	25	60	M8
32	25NB	45	25	65	M8
40	32NB	55	25	75	M8
50	40NB	60	35	90	M10
63	50NB	75	35	100	M10
75	65NB	90	45	130	M12
90	80NB	105	50	150	M16
110	100NB	135	50	175	M16
140	125NB	160	50	200	M16
160	150NB	190	55	235	M20
180	180NB	210	55	250	M20
200	200NB	245	55	295	M20
225	225NB	270	55	310	M20
250	250NB	300	60	350	M20
280/315	300NB	350	60	400	M20
355	350NB	385	65	440	M24
400	400NB	435	65	500	M24
450	450NB	485	70	540	M24
500	500NB	540	70	600	M24
560	550NB	590	70	650	M24
630	650NB	690	70	740	M24
710	700NB	750	80	810	M30
800	800NB	850	80	910	M30
1000	1000NB	1060	90	1130	M36



## COMPRESSION JOINERS

## RACCORDS DE COMPRESSION

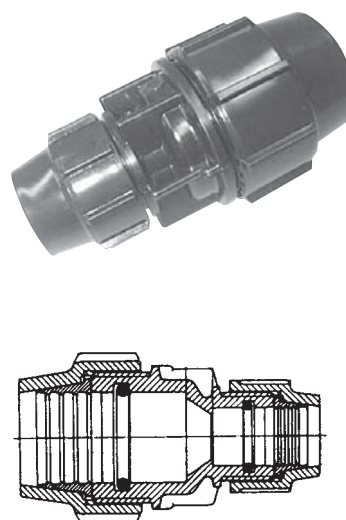
CODE	OD	PN
CJ020	20	16
CJ025	25	16
CJ032	32	16
CJ040	40	16
CJ050	50	16
CJ063	63	16
CJ075	75	12.5 - 16
CJ090	90	12.5 - 16
CJ110	110	12.5 - 16
CJ125	125	12.5
CJ160	160	10



## COMPRESSION REDUCING JOINERS

## RACCORDS DE COMPRESSION REDUITS

CODE	OD	PN
CRJ02520	25x20	16
CRJ03220	32x20	16
CRJ03225	32x25	16
CRJ04025	40x25	16
CRJ04032	40x32	16
CRJ05025	50x25	16
CRJ05032	50x32	16
CRJ05040	50x40	16
CRJ06325	63x25	16
CRJ06332	63x32	16
CRJ06340	63x40	16
CRJ06350	63x50	16
CRJ07550	75x50	12.5 - 16
CRJ07563	75x63	12.5 - 16
CRJ09063	90x63	12.5 - 16
CRJ09075	90x75	12.5 - 16
CRJ11090	110x90	12.5 - 16

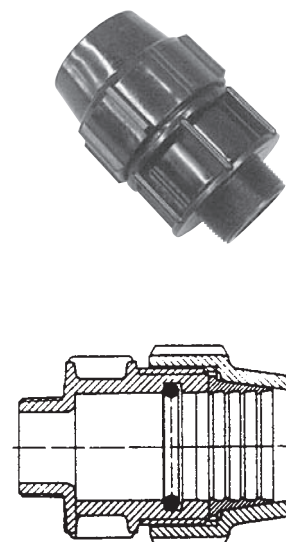


## MALE COMPRESSION ADAPTOR

## ADAPTATEUR DE COMPRESSION MALE

CODE	SIZE	PN
CAM02015	20x1/2"	16
CAM02020	20x3/4"	16
CAM02025	20x1"	16
CAM02515	25x1/2"	16
CAM02520	25x3/4"	16
CAM02525	25x1"	16
CAM03220	32x3/4"	16
CAM03225	32x1"	16
CAM03240	32x1 1/2"	16
CAM04025	40x1"	16
CAM04032	40x1 1/4"	16
CAM04040	40x1 1/2"	16
CAM04050	40x2"	16
CAM05032 N/S	50x1"	16
CAM05040	50x1 1/2"	16

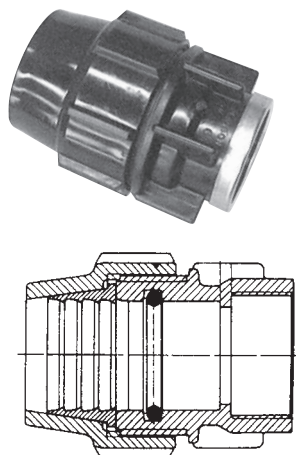
CODE	SIZE	PN
CAM05050	50x2"	16
CAM06332	63x1 1/4"	16
CAM06340	63x1 1/2"	16
CAM06350	63x2"	16
CAM06365	63x2 1/2"	16
CAM07550	75x2"	12.5 - 16
CAM07565	75x2 1/2"	12.5 - 16
CAM07580	75x3"	12.5 - 16
CAM09050	90x2"	12.5 - 16
CAM09065	90x2 1/2"	12.5 - 16
CAM09080	90x3"	12.5 - 16
CAM090100	90x4"	12.5 - 16
CAM11050	110x2"	12.5 - 16
CAM11080	110x3"	12.5 - 16
CAM110100	110x4"	12.5 - 16





## FEMALE COMPRESSION ADAPTOR

## ADAPTATEUR DE COMPRESSION FEMELLE

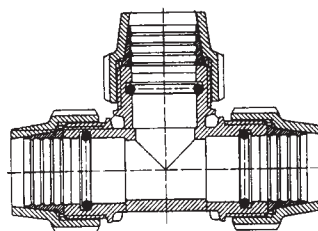


CODE	SIZE	PN
CAF02015	20x1/2"	16
CAF02020	20x3/4"	16
CAF02025	20x1"	16
CAF02032	20x1 1/4"	16
CAF02515	25x1/2"	16
CAF02520	25x3/4"	16
CAF02525	25x1"	16
CAF03220	32x3/4"	16
CAF03225	32x1"	16
CAF03232	32x1 1/4"	16
CAF04025	40x1"	16
CAF04032	40x1 1/4"	16
CAF04040	40x1 1/2"	16

CODE	SIZE	PN
CAF05032	50x1 1/4"	16
CAF05040	50x1 1/2"	16
CAF05050	50x2"	16
CAF06332	63x1 1/4"	16
CAF06340	63x1 1/2"	16
CAF06350	63x2"	16
CAF07550	75x2"	12.5 - 16
CAF07565	50x2 1/2"	12.5 - 16
CAF09050	90x2"	12.5 - 16
CAF09080	90x3"	12.5 - 16
CAF090100	90x4"	12.5 - 16
CAF110080	110x3"	12.5 - 16
CAF110100	110x4"	12.5 - 16

## COMPRESSION TEE

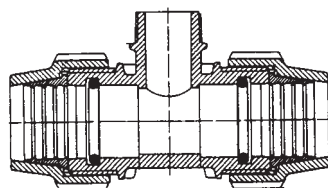
## TE DE COMPRESSION



CODE	SIZE	PN
CT020	20	16
CT025	25	16
CT032	32	16
CT040	40	16
CT050	50	16
CT063	63	16
CT075	75	12.5 - 16
CT090	90	12.5 - 16
CT110	110	12.5 - 16

## MALE COMPRESSION TEE

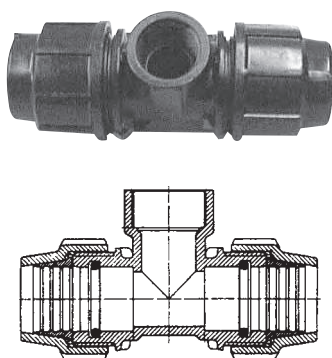
## TE DE COMPRESSION MALE



CODE	SIZE	PN
CTM02015	20x1/2"	16
CTM02020	20x3/4"	16
CTM02515	25x1/2"	16
CTM02520	25x3/4"	16
CTM03225	32x1"	16
CTM04032	40x1 1/4"	16
CTM04040	40x1 1/2"	16
CTM05032	50x1 1/4"	16
CTM05040	50x1 1/2"	16
CTM06332	63x1 1/4"	16
CTM06340	63x1 1/2"	16
CTM06350	63x2"	16

## FEMALE COMPRESSION TEE

## TE DE COMPRESSION FEMELLE



CODE	SIZE	PN
CTF02015	20x1/2"	16
CTF02020	20x3/4"	16
CTF02515	25x1/2"	16
CTF02520	25x3/4"	16
CTF02525	25x1"	16
CTF02532	25x1 1/4"	16
CTF03220	32x3/4"	16
CTF03225	32x1"	16
CTF03232	32x1 1/4"	16
CTF03240	32x1 1/2"	16
CTF04025	40x1"	16

CODE	SIZE	PN
CTF04040	40x1 1/2"	16
CTF05040	50x1 1/2"	16
CTF05050	50x2"	16
CTF06332	63x1 1/4"	16
CTF06340	63x1 1/2"	16
CTF06350	63x2"	16
CTF07550	75x2"	12.5 - 16
CTF07565	75x2 1/2"	12.5 - 16
CTF07580	75x3"	12.5 - 16
CTF09080	90x3"	12.5 - 16
CTF110100	100x4"	12.5 - 16

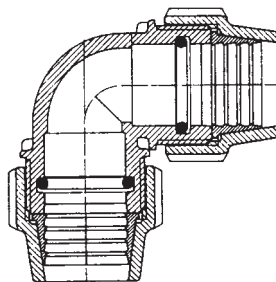




## COMPRESSION ELBOW

## COUDE DE COMPRESSION

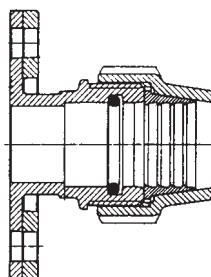
CODE	SIZE	PN
CE020	20	16
CE025	25	16
CE032	32	16
CE040	40	16
CE050	50	16
CE063	63	16
CE075	75	12.5 - 16
CE090	90	12.5 - 16
CE110	110	12.5 - 16
CE160	160	12.5 - 16



## COMPRESSION FLANGE ADAPTOR

## RACCORDS FILETES

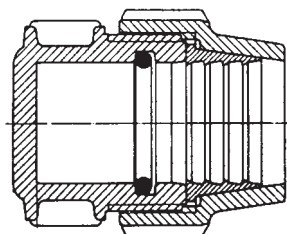
CODE	SIZE	PN
CFA063	63x2 1/2"	16
CFA075	75x3"	16
CFA090	90x4"	16
CFA110	110x4"	12.5 - 16
CFA125	125x5"	12.5



## COMPRESSION END CAP

## CHAPEAU D'EXTREMITE DE COMPRESSION

CODE	SIZE	PN
CEC025	25	16
CEC032	32	16
CEC040	40	16
CEC050	50	16
CEC063	63	16
CEC075	75	12.5 - 16
CEC090	90	12.5 - 16
CEC110	110	12.5 - 16



## PE THREADED PLUGS

## BOUCHONS FILETES EN PE

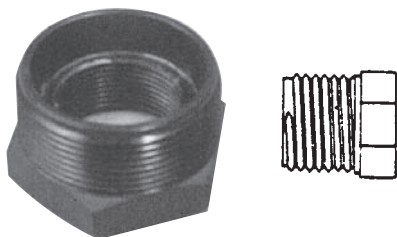
CODE	BSP SIZE (Inch)
TFP015	1/2"
TFP020	3/4"
TFP025	1"
TFP032	1 1/4"
TFP040	1 1/2"
TFP050	2"





## THREADED BUSHES

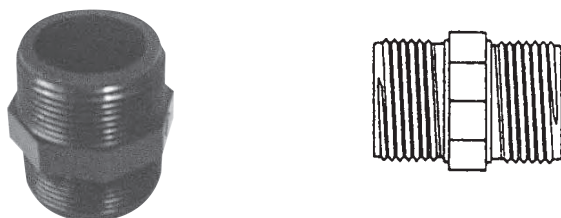
## BAGUES FILETEES



CODE	BSP SIZE (Inch)	CODE	BSP SIZE (Inch)
TFB68212	$\frac{3}{4}" \times \frac{1}{2}"$	TFB68230	2" x 1"
TFB68214	1" x $\frac{1}{2}"$	TFB68232	2" x $1\frac{1}{4}"$
TFB68216	1" x $\frac{3}{4}"$	TFB68234	2" x $1\frac{1}{2}"$
TFB68217	$1\frac{1}{4}" \times \frac{1}{2}"$	TFB68242	$2\frac{1}{2}" \times 2"$
TFB68218	$1\frac{1}{4}" \times \frac{3}{4}"$	TFB68243	3" x 1"
TFB68220	$1\frac{1}{4}" \times 1"$	TFB68238	3" x $1\frac{1}{4}"$
TFB68221	$1\frac{1}{2}" \times \frac{1}{2}"$	TFB68239	3" x $1\frac{1}{2}"$
TFB68222	$1\frac{1}{2}" \times \frac{3}{4}"$	TFB68246	3" x 2"
TFB68224	$1\frac{1}{2}" \times 1"$	TFB68247	3" x $2\frac{1}{2}"$
TFB68226	$1\frac{1}{2}" \times 1\frac{1}{4}"$	TFB68244	4" x 2"
TFB68227	2" x $\frac{1}{2}"$	TFB68245	4" x 3"
TFB68228	2" x $\frac{3}{4}"$		

## THREADED NIPPLES

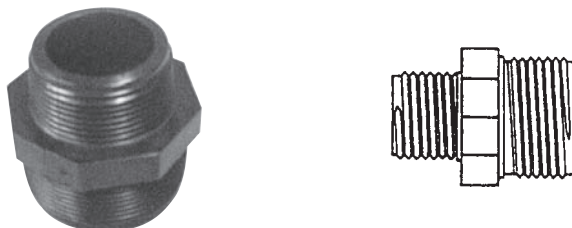
## RACCORDS FILETES



CODE	BSP SIZE (Inch)
TFN015	$\frac{1}{2}"$
TFN020	$\frac{3}{4}"$
TFN025	1"
TFN032	$1\frac{1}{4}"$
TFN040	$1\frac{1}{2}"$
TFN050	2"

## THREADED NIPPLES - REDUCING

## RACCORDS REDUITS FILETES



CODE	BSP SIZE (Inch)
TFRN02015	$\frac{3}{4}" \times \frac{1}{2}"$
TFRN02520	1" x $\frac{3}{4}"$
TFRN05040	2" x $1\frac{1}{2}"$

Full range of reducing nipples

## THREADED SOCKETS

## EMBOITEMENTS FILETES



CODE	BSP SIZE (Inch)
TFS015	$\frac{1}{2}"$
TFS020	$\frac{3}{4}"$
TFS025	1"
TFS032	$1\frac{1}{4}"$
TFS040	$1\frac{1}{2}"$
TFS050	2"

## THREADED CAPS

## CHAPEAUX FILETES



CODE	BSP SIZE (Inch)
TFC015	$\frac{1}{2}"$
TFC020	$\frac{3}{4}"$
TFC025	1"
TFC032	$1\frac{1}{4}"$
TFC040	$1\frac{1}{2}"$
TFC050	2"

## COMPARISON OF SDR & PRESSURE RATINGS FOR PE 80B AND PE100 MATERIALS

<b>PN16</b>	Nominal working pressure of 1.60 MPa
<b>PN20</b>	Nominal working pressure of 2.00 MPa
<b>PN25</b>	Nominal working pressure of 2.50 MPa

Series 2 and Series 3 pipes are classified according to SDR.

Standard dimension ratios for Series 1 pipes made from PE 80 and PE 100 compounds are given in Table 1.

Series 1 pipe dimensions are given in Table 2, Series 2 in Table, 3 and Series 3 in Table 4.

## COMPARAISON DES RAPPORTS DIMENSIONNELS NORMAUX ET DES TAUX MAXIMA DE PRESSION DES MATERIAUX PE 80B ET PE100

<b>PN16</b>	Pression de service nominale de 1,60 MPa
<b>PN20</b>	Pression de service nominale de 2,00 MPa
<b>PN25</b>	Pression de service nominale de 2,50 MPa

Les tuyaux série 2 et série 3 sont classés selon leur rapport dimensionnel normal.

Les rapports dimensionnels normaux des tuyaux série 1 fabriqués des composés PE 80 et PE 100 sont présentés au tableau 1.

Les dimensions des tuyaux série 1 sont présentées au tableau 2, celles des tuyaux série 2 au tableau 3 et celles des tuyaux série 3 au tableau 4.

**TABLE 1**  
**STANDARD DIMENSION RATIOS (SDRs) FOR SERIES 1 PIPES**

Compound	PN 3.2	PN 4	PN 6.3	PN 8	PN 10	PN 12.5	PN 16	PN 20	PN 25
<b>PE 80</b>	41	33	21	17	13.6	11	9	7.4	—
<b>PE 100</b>	—	41	26	21	17	13.6	11	9	7.4

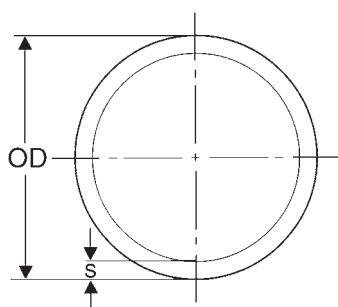
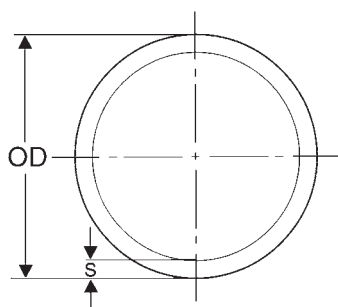




## PIPE - PE 80 POLYETHYLENE

## TUYAU - POLYETHYLENE PE 80

Standard dimensions & weight PE 80B to AS4130



OD	SDR 33 PN 4(PE80)			SDR 21 PN 6.3(PE80)			SDR 17 PN 8(PE80)		
	MEAN BORE	S	Kg/m	MEAN BORE	S	Kg/m	MEAN BORE	S	Kg/m
20	17	1.8	0.1	17	1.8	0.1	17	1.8	0.1
25	22	1.8	0.1	22	1.8	0.1	22	1.8	0.1
32	29	1.8	0.2	29	1.8	0.2	29	1.8	0.2
40	37	1.8	0.2	36	2.1	0.2	35	2.6	0.3
50	47	1.8	0.3	45	2.6	0.4	44	3.2	0.4
63	59	2.2	0.4	57	3.2	0.6	55	4.1	0.7
75	70	2.5	0.5	67	3.9	0.8	66	4.8	1.0
90	84	3.0	0.8	81	4.6	1.2	79	5.8	1.5
110	103	3.7	1.2	99	5.7	1.8	96	7.0	2.2
125	117	4.2	1.5	112	6.4	2.3	110	7.9	2.8
140	131	4.6	1.9	126	7.1	2.8	123	8.8	3.5
160	150	5.2	2.4	144	8.2	3.7	141	10.1	4.5
180	169	5.5	3.1	162	8.6	4.7	157	10.7	5.7
200	188	6.6	3.8	180	10.2	5.8	176	12.6	7.1
225	211	7.3	4.8	202	11.4	7.3	198	14.2	9.0
250	235	8.2	5.9	225	12.6	9.0	220	15.6	11.0
280	263	9.1	7.4	252	14.2	11.3	246	17.5	13.8
315	296	10.3	9.4	283	15.8	14.2	277	19.7	17.5
355	334	11.5	11.9	319	17.8	18.1	312	22.3	22.3
400	376	13.0	15.1	360	20.2	23.0	352	25.0	28.2
450	423	14.6	19.1	405	22.7	29.1	396	28.1	35.7
500	470	16.2	23.5	450	25.2	35.9	440	31.2	43.9
560	526	18.2	29.6	504	28.1	45.0	493	35.0	55.2
630	592	20.4	37.3	567	31.6	56.8	554	39.3	69.8
710	667	23.0	47.4	639	35.7	72.3	625	44.3	88.7
800	752	25.8	60.1	720	40.1	91.7	704	49.9	112.5
1000	940	32.2	87.3	904	50.2	136.8	880	62.4	169.5
1200	1126.6	36.7	139	1085.6	57.2	212			

OD	SDR 13.6 PN 10(PE80)			SDR 11 PN 12.5(PE80)			SDR 9 PN 16(PE80)		
	MEAN BORE	S	Kg/m	MEAN BORE	S	Kg/m	MEAN BORE	S	Kg/m
20	17	1.8	0.1	16	2.1	0.1	15	2.5	0.1
25	21	2.1	0.1	20	2.5	0.2	19	3.0	0.2
32	27	2.6	0.2	26	3.1	0.3	24	3.9	0.3
40	34	3.2	0.4	32	4.0	0.4	31	4.8	0.5
50	42	4.0	0.5	40	4.9	0.7	38	6.0	0.8
63	53	5.0	0.9	51	6.2	1.1	48	7.6	1.3
75	64	5.9	1.2	61	7.2	1.5	57	8.9	1.8
90	76	7.0	1.7	73	8.7	2.1	69	10.7	2.6
110	93	8.6	2.6	89	10.6	3.2	84	13.0	3.8
125	106	9.8	3.4	102	12.1	4.1	96	14.8	4.9
140	119	10.9	4.2	114	13.4	5.1	108	16.6	6.2
160	136	12.5	5.5	130	15.4	6.7	123	18.9	8.0
180	152	13.3	7.0	146	16.0	8.4	138	20.1	10.1
200	170	15.5	8.6	163	19.2	10.4	154	23.6	12.5
225	191	17.5	10.9	183	21.6	13.2	173	26.5	15.8
250	212	19.4	13.5	203	23.9	16.3	192	29.4	19.5
280	238	21.7	16.9	228	26.8	20.4	215	33.0	24.5
315	268	24.5	21.4	256	30.1	25.8	242	37.1	31.0
355	302	27.5	27.1	289	33.9	32.8	273	41.7	39.3
400	340	31.0	34.4	325	38.2	41.6	308	47.0	49.9
450	382	34.9	43.5	366	43.0	52.7	346	52.9	63.2
500	425	38.7	53.7	407	47.8	65.0	385	58.7	77.9
560	476	43.4	67.4	456	53.4	81.4	—	—	—
630	535	48.9	85.5	513	60.2	103.2	—	—	—
710	603	54.9	108.2	—	—	—	—	—	—
800	680	61.8	137.3	—	—	—	—	—	—





PIPE - PE 100 POLYETHYLENE

OD	SDR 41			SDR 26			SDR 21			SDR 17			SDR 13.6			SDR 11			SDR 9			SDR 7.4		
	MEAN BORE	S	Kg/m	MEAN BORE	S	Kg/m	MEAN BORE	S	Kg/m	MEAN BORE	S	Kg/m	MEAN BORE	S	Kg/m	MEAN BORE	S	Kg/m	MEAN BORE	S	Kg/m	MEAN BORE	S	Kg/m
16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	13	1.6	0.1	12	1.8	0.1	11	2.2	0.1
20	—	—	—	—	—	—	—	—	—	—	—	—	17	1.6	0.1	16	1.9	0.1	15	2.3	0.1	14	2.8	0.2
25	—	—	—	—	—	—	—	—	—	21.5	1.6	0.1	21	1.9	0.1	20	2.3	0.2	19	2.8	0.2	18	3.5	0.2
32	—	—	—	—	—	—	29	1.6	0.2	27.9	1.9	0.2	27	2.4	0.2	26	2.9	0.3	24	3.6	0.3	23	4.4	0.4
40	—	—	—	—	—	—	36	1.9	0.2	34.8	2.4	0.3	34	3.0	0.4	32	3.7	0.4	30	4.5	0.5	28	5.5	0.6
50	—	—	—	—	—	—	45	2.4	0.4	43.6	3.0	0.5	42	3.7	0.5	40	4.6	0.7	38	5.6	0.8	35	6.9	0.9
63	—	—	—	58	2.4	0.5	57	3.0	0.6	54.9	3.8	0.7	53	4.7	0.9	51	5.8	1.1	48	7.1	1.3	45	8.6	1.5
75	—	—	—	69	2.9	0.7	67	3.6	0.8	65.4	4.5	1.0	63	5.5	1.2	61	6.8	1.5	57	8.4	1.8	53	10.3	2.1
90	—	—	—	83	3.5	1.0	81	4.3	1.2	78.5	5.4	1.5	76	6.6	1.8	73	8.2	2.1	69	10.1	2.6	64	12.3	3.0
110	104	2.7	0.9	101	4.3	1.5	99	5.3	1.8	96.0	6.6	2.2	93	8.1	2.6	89	10.0	3.2	84	12.3	3.8	78	15.1	4.5
125	118	3.1	1.2	115	4.8	1.8	112	6.0	2.3	109.3	7.4	2.8	106	9.2	3.4	101	11.4	4.1	96	14.0	4.9	89	17.1	5.8
140	133	3.5	1.5	129	5.4	2.3	126	6.7	2.8	122.4	8.3	3.5	118	10.3	4.2	113	12.7	5.1	107	15.7	6.2	100	19.2	7.3
160	153	3.2	1.7	148	6.2	3.1	144	7.7	3.7	139.9	9.5	4.5	135	11.8	5.5	129	14.6	6.7	122	17.9	8.0	114	21.9	9.5
180	171	4.4	2.5	165	6.9	3.8	162	8.6	4.7	157.4	10.7	5.7	152	13.3	7.0	146	16.0	8.4	138	20.1	10.2	128	24.6	12.0
200	191	4.0	2.6	184	7.7	4.7	180	9.6	5.8	174.9	11.9	7.1	169	14.7	8.6	162	18.2	10.5	153	22.4	12.5	143	27.3	14.8
225	215	4.5	3.3	207	8.6	5.9	202	10.8	7.3	196.7	13.4	9.0	190	16.6	11.0	182	20.5	13.3	172	25.1	15.8	160	30.8	18.8
250	237	6.2	4.8	230	9.6	7.3	225	11.9	9.0	218.8	14.8	11.0	211	18.4	13.5	202	22.7	16.3	191	27.9	19.5	178	34.2	23.2
280	265	6.9	6.0	257	10.7	9.2	252	13.4	11.3	245.0	16.6	13.9	237	20.6	16.9	227	25.4	20.4	214	31.3	24.6	199	38.3	29.1
315	300	7.7	7.5	289	12.1	11.7	283	15.0	14.3	275.6	18.7	17.5	266	23.2	21.4	255	28.6	25.9	241	35.2	31.1	225	43.0	36.8
355	338	8.7	9.6	326	13.6	14.7	319	16.9	18.1	310.5	21.1	22.3	300	26.1	27.2	287	32.2	32.8	272	39.6	39.4	253	48.5	46.8
400	380	9.8	12.1	368	15.3	18.7	360	19.1	23.1	350.1	23.7	28.2	338	29.4	34.4	324	36.3	41.7	306	44.7	50.0	285	54.6	59.3
450	427	11.0	15.3	414	17.2	23.6	405	21.5	29.2	393.8	26.7	35.8	380	33.1	43.6	364	40.9	52.8	344	50.2	63.3	321	61.5	75.1
500	474	12.3	19.1	460	19.1	29.2	450	23.9	36.0	437.7	29.6	44.0	423	36.8	53.8	405	45.4	65.1	383	55.8	78.1	357	68.1	92.6
560	531	13.7	23.8	515	21.4	36.6	504	26.7	45.1	490.1	33.2	55.3	473	41.2	67.5	453	50.8	81.6	428	62.8	98.4	451	85.13	145.8
630	598	15.4	30.1	579	24.1	46.3	567	30.0	56.9	551.5	37.3	69.9	533	46.3	85.4	510	57.2	103.4	481	70.6	124.6	509	95.9	185.1
710	673	17.4	38.3	653	27.2	58.9	639	33.9	72.5	621.4	42.1	88.9	600	52.2	108.5	573	65.1	132.6	544	78.9	156.8	573	108.1	235.1
800	759	19.6	48.5	736	30.6	74.6	720	38.1	91.9	700.3	47.4	112.8	676	58.8	137.6	647	72.7	166.7	613	88.9	199.0	—	—	—
900	854	22.0	61.2	828	34.4	94.3	810	42.9	116.3	787.5	53.5	143.1	763	65.2	171.8	728	81.8	211.0	—	—	—	—	—	—
1000	948	24.5	75.8	920	38.2	116.4	900	47.7	143.7	875.3	59.3	176.3	846	73.5	215.0	809	90.9	260.4	—	—	—	—	—	—
1200	1138	29.4	109.1	1104	45.9	167.6	1080	57.2	206.8	1050.3	71.1	253.9	1015	88.3	309.7	971	109.1	375.0	—	—	—	—	—	—
1400	1328	34.4	148.9	1288	53.2	226.8	1259	67.1	282.9	1225.7	82.9	345.0	1182	103.7	424.1	1131	128.2	513.8	—	—	—	—	—	—
1600	1518	39.0	192.9	1471	61.5	299.4	1440	76.2	367.0	1402.3	94.1	447.6	1353	117.6	550.3	—	—	—	—	—	—	—	—	—
1800	1708	43.9	244.1	1655	69.2	378.9	1620	85.7	464.4	1577.5	105.9	566.5	1522	132.4	696.4	—	—	—	—	—	—	—	—	—
2000	1897	48.8	301.3	1838	76.9	467.8	1800	95.2	573.3	1752.8	117.6	699.4	1691	147.1	859.7	—	—	—	—	—	—	—	—	—

Dimensions subject to change without notice



## APPROXIMATE PIPE CAPACITY OF TRUCKS CAPACITE APPROXIMATIVE DES CAMIONS DE TRANSPORT DE TUYAUX

PIPE O.D. mm	No. OF COILS
63	Coil 45
75	Coil 40
90	Coil 25
110(100m)	Coil 20

PIPE O.D. mm	No. OF PIPES
110 (12m or 20m)	450
125	370
140	330
160	250
200	165
225	114
250	99
280	80
315	63

Note: Quantity may vary with  
different SDR ratings & lengths  
due to weight restrictions

PIPE O.D. mm	No. OF PIPES
355	50
400	40
450	27
500	24
560	19
630	15
710	11
800	9
1000	6
1200	4
1400	2
1600	1
1800	1
2000	1





# PIPE DIMENSIONS TO STANDARD AS/NZS 4130 : 2003

## DIMENSIONS DES TUYAUX SELON LA NORME AUSTRALIENNE/NEO-ZELANDAISE AS/NZS 4130 : 2003

SDRs 41, 26 and 21

RAPPORT DIMENSIONNEL NOMINAL DE 41, 26 et 21

Standard dimension ratio				SDR 41				SDR 26				SDR 21			
Nominal outside diameter	Mean outside diameter		Out-of-roundness	Wall thickness		Mean inside diameter		Wall thickness		Mean inside diameter		Wall thickness		Mean inside diameter	
DN	Min.	Max.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
16	16.0	16.3	1.2	—	—	—	—	—	—	—	—	—	—	—	—
20	20.0	20.3	1.2	—	—	—	—	—	—	—	—	—	—	—	—
25	25.0	25.3	1.2	—	—	—	—	—	—	—	—	—	—	—	—
32	32.0	32.3	1.3	—	—	—	—	—	—	—	—	1.6	1.9	28.2	29.1
40	40.0	40.4	1.4	—	—	—	—	—	—	—	—	1.9	2.2	35.6	36.6
50	50.0	50.5	1.4	—	—	—	—	—	—	—	—	2.4	2.8	44.4	45.7
63	63.0	63.6	1.5	—	—	—	—	2.4	2.8	57.4	58.8	3.0	3.4	56.2	57.6
75	75.0	75.7	1.6	—	—	—	—	2.9	3.3	68.4	69.9	3.6	4.1	66.8	68.5
90	90.0	90.9	1.8	—	—	—	—	3.5	4.0	82.0	83.9	4.3	4.9	80.2	82.3
110	110.0	111.0	2.2	2.7	3.1	103.8	105.6	4.3	4.9	100.2	102.4	5.3	6.0	98.0	100.4
125	125.0	126.2	2.5	3.1	3.6	117.8	120.0	4.9	5.4	114.2	116.6	6.0	6.7	111.6	114.2
140	140.0	141.3	2.8	3.5	4.0	132.0	134.3	5.4	6.1	127.8	130.5	6.7	7.5	125.0	127.9
160	160.0	161.5	3.2	4.0	4.5	151.0	153.5	6.2	7.0	146.0	149.1	7.7	8.6	142.8	146.1
180	180.0	181.7	3.6	4.4	5.0	170.0	172.9	6.9	7.7	164.6	167.9	8.6	9.6	160.8	164.5
200	200.0	201.8	4.0	4.9	5.5	189.0	192.0	7.7	8.6	182.8	186.4	9.6	10.7	178.6	182.6
225	225.0	227.1	4.5	5.5	6.2	212.6	216.1	8.6	9.6	205.8	209.9	10.8	12.0	201.0	205.5
250	250.0	252.3	5.0	6.2	7.0	236.0	239.9	9.6	10.7	228.6	233.1	11.9	13.2	223.6	228.5
280	280.0	282.6	9.8	6.9	7.7	264.6	268.8	10.7	11.9	256.2	261.2	13.4	14.9	250.2	255.8
315	315.0	317.9	11.1	7.7	8.6	297.8	302.5	12.1	13.5	288.0	293.7	15.0	16.6	281.8	287.9
355	355.0	358.2	12.5	8.7	9.7	335.6	340.8	13.6	15.1	324.8	331.0	16.9	18.7	317.6	324.4
400	400.0	403.6	14.0	9.8	10.9	378.2	381.8	15.3	17.0	366.0	373.0	19.1	21.2	357.6	365.4
450	450.0	454.1	15.6	11.0	12.2	425.6	432.1	17.2	19.1	411.8	419.7	21.5	23.8	402.4	411.1
500	500.0	504.5	17.5	12.3	13.7	472.6	479.9	19.1	21.2	457.6	466.3	23.9	26.4	447.2	456.7
560	560.0	565.0	19.6	13.7	15.2	529.6	537.7	21.4	23.7	512.6	522.3	26.7	29.5	501.0	511.7
630	630.0	635.7	22.1	15.4	17.1	595.8	604.9	24.1	26.7	576.6	587.5	30.0	33.1	563.8	575.7
710	710.0	716.4	24.9	17.4	19.3	671.4	681.6	27.2	30.1	649.8	662.0	33.9	37.4	635.2	648.6
800	800.0	807.2	28.0	19.6	21.7	756.6	768.0	30.6	33.8	732.4	746.0	38.1	42.1	715.8	731.0
900	900.0	908.1	31.5	22.0	24.3	851.4	864.1	34.4	38.0	824.0	839.3	42.9	47.3	805.4	822.3
1000	1000.0	1009.0	35.0	24.5	27.1	945.8	960.0	38.2	42.2	915.6	932.6	47.7	52.6	894.8	913.6
1200	1200.0	1210.0	42.0	29.4	32.5	1135.0	1151.2	45.9	50.6	1098.8	1118.2	57.2	63.1	1073.8	1095.6
1400	1400.0	1410.0	49.0	34.4	38.0	1324.0	1341.2	53.2	58.7	1282.6	1303.6	67.1	74.0	1252.1	1275.7
1600	1600.0	1610.0	56.0	39.0	43.4	1513.2	1532.0	61.5	67.8	1464.4	1486.9	76.2	83.9	1432.2	1457.6
1800	1800.0	1810.0	63.0	43.9	48.4	1703.2	1722.2	69.2	76.3	1647.5	1671.5	85.7	94.4	1611.2	1638.6
2000	2000.0	2010.0	70.0	48.8	53.8	1892.5	1912.4	76.9	84.7	1830.6	1856.2	95.2	104.9	1790.3	1819.5



# PIPE DIMENSIONS TO STANDARD AS/NZS 4130 : 2003

## DIMENSIONS DES TUYAUX SELON LA NORME AUSTRALIENNE/NEO-ZELANDAISE AS/NZS 4130 : 2003

SDRs 17, 13.6 and 11

RAPPORT DIMENSIONNEL NOMINAL DE 17, 13.6 et 11

Standard dimension ratio				SDR 17				SDR 13.6				SDR 11			
Nominal outside diameter	Mean outside diameter		Out-of-roundness	Wall thickness		Mean inside diameter		Wall thickness		Mean inside diameter		Wall thickness		Mean inside diameter	
DN	Min.	Max.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
16	16.0	163	1.2	—	—	—	—	—	—	—	—	1.6	1.9	12.2	13.1
20	20.0	20.3	1.2	—	—	—	—	1.6	1.9	16.2	17.1	1.9	2.2	15.6	16.5
25	25.0	25.3	1.2	1.6	1.9	21.2	22.1	1.9	2.2	20.6	21.5	2.3	2.7	19.6	20.7
32	32.0	32.3	1.3	1.9	2.2	27.6	28.5	2.4	2.8	26.4	27.5	2.9	3.3	25.4	26.5
40	40.0	40.4	1.4	2.4	2.8	34.4	35.6	3.0	3.4	33.2	34.4	3.7	4.2	31.6	33.0
50	50.0	50.5	1.4	3.0	3.4	43.2	44.5	3.7	4.2	41.6	43.1	4.6	5.2	39.6	41.2
63	63.0	63.6	1.5	3.8	4.3	54.4	56.0	4.7	5.3	52.4	54.2	5.8	6.5	50.0	52.0
75	75.0	75.7	1.6	4.5	5.1	64.8	66.7	5.5	6.2	62.6	64.7	6.8	7.6	59.8	62.1
90	90.0	90.9	1.8	5.4	6.1	77.8	80.1	6.6	7.4	75.2	77.7	8.2	9.2	71.6	74.5
110	110.0	111.0	2.2	6.6	7.4	95.2	97.8	5.1	9.1	91.8	94.8	10.0	11.1	87.9	91.0
125	125.0	126.2	2.5	7.4	8.3	108.4	111.4	9.2	10.3	104.4	107.8	11.4	12.7	99.6	103.4
140	140.0	141.3	2.8	8.3	9.3	121.4	124.7	10.3	11.5	117.0	120.7	12.7	14.1	111.8	115.9
160	160.0	161.5	3.2	9.5	10.6	139.8	142.5	11.8	13.1	133.8	137.9	14.6	16.2	127.6	132.3
180	180.0	181.7	3.6	10.7	11.9	156.2	160.3	13.3	14.8	150.4	155.1	16.4	18.2	143.6	148.9
200	200.0	201.8	4.0	11.9	13.2	173.6	178.0	14.7	16.3	167.4	172.4	18.2	20.2	159.6	165.4
225	225.0	227.1	4.5	13.4	14.9	195.2	200.3	16.6	18.4	188.2	193.9	20.5	22.7	179.6	186.1
250	250.0	252.3	5.0	14.8	16.4	217.2	222.7	18.4	20.4	209.2	215.5	22.7	25.1	199.8	206.9
280	280.0	282.6	9.8	16.6	18.4	243.2	249.4	20.6	22.8	234.4	241.4	25.4	28.1	223.8	231.8
315	315.0	317.9	11.1	18.7	20.7	273.6	280.5	23.2	25.7	263.6	271.5	28.6	31.6	251.8	260.7
355	355.0	358.2	12.5	21.1	23.4	306.2	316.0	26.1	28.9	297.2	306.0	32.2	35.6	283.8	293.8
400	400.0	403.6	14.0	23.7	26.2	347.6	356.2	29.4	32.5	335.0	344.8	36.3	40.1	319.8	331.0
450	450.0	454.1	15.6	26.7	29.5	391.0	400.7	33.1	36.6	376.8	387.9	40.9	45.1	359.8	372.3
500	500.0	504.5	17.5	29.6	32.7	434.6	445.3	36.8	40.6	418.8	430.9	45.4	50.1	399.8	413.7
560	560.0	565.0	19.6	33.2	36.7	486.6	498.7	41.2	45.5	469.0	482.7	50.8	56.0	448.0	463.5
630	630.0	635.7	22.1	37.3	41.2	547.6	561.1	46.3	51.1	527.8	543.1	57.2	63.1	503.8	521.3
710	710.0	716.4	24.9	42.1	46.5	617.0	632.2	52.2	57.6	594.8	612.0	65.1	71.9	566.1	586.2
800	800.0	807.2	28.0	47.4	52.3	695.4	712.4	58.8	64.8	670.4	689.6	72.7	80.1	639.9	661.8
900	900.0	909.1	31.5	53.5	59.0	782.2	801.1	65.2	71.8	756.3	777.7	81.8	90.1	719.8	744.5
1 000	1 000.0	1 009.0	35.0	59.3	65.4	869.2	890.4	73.5	81.0	838.0	862.0	90.9	100.0	800.0	827.2
1 200	1 200.0	1 210.0	42.0	71.1	78.6	1042.9	1067.8	88.3	97.2	1005.6	1033.4	109.1	120.0	960.0	991.8
1 400	1 400.0	1 410.0	49.0	82.9	91.3	1217.3	1244.1	103.7	114.1	1171.7	1202.6	128.2	141.1	1117.8	1153.6
1 600	1 600.0	1 610.0	56.0	94.1	103.6	1392.7	1421.8	117.6	129.5	1341.0	1374.7	—	—	—	—
1800	1800.0	1810.0	63.0	105.9	116.6	1566.9	1598.2	132.4	145.7	1518.6	1545.3	—	—	—	—
2000	2000.0	2010.0	70.0	117.6	129.5	1741.0	1774.7	147.1	161.9	1676.3	1715.9	—	—	—	—



# **PIPE DIMENSIONS TO STANDARD AS/NZS 4130 : 2003** **DIMENSIONS DES TUYAUX SELON LA NORME** **AUSTRALIENNE/NEO-ZELANDAISE AS/NZS 4130 : 2003**

**SDRs 9 and 7.4**

**RAPPORT DIMENSIONNEL NOMINAL DE 9 et 7,4**

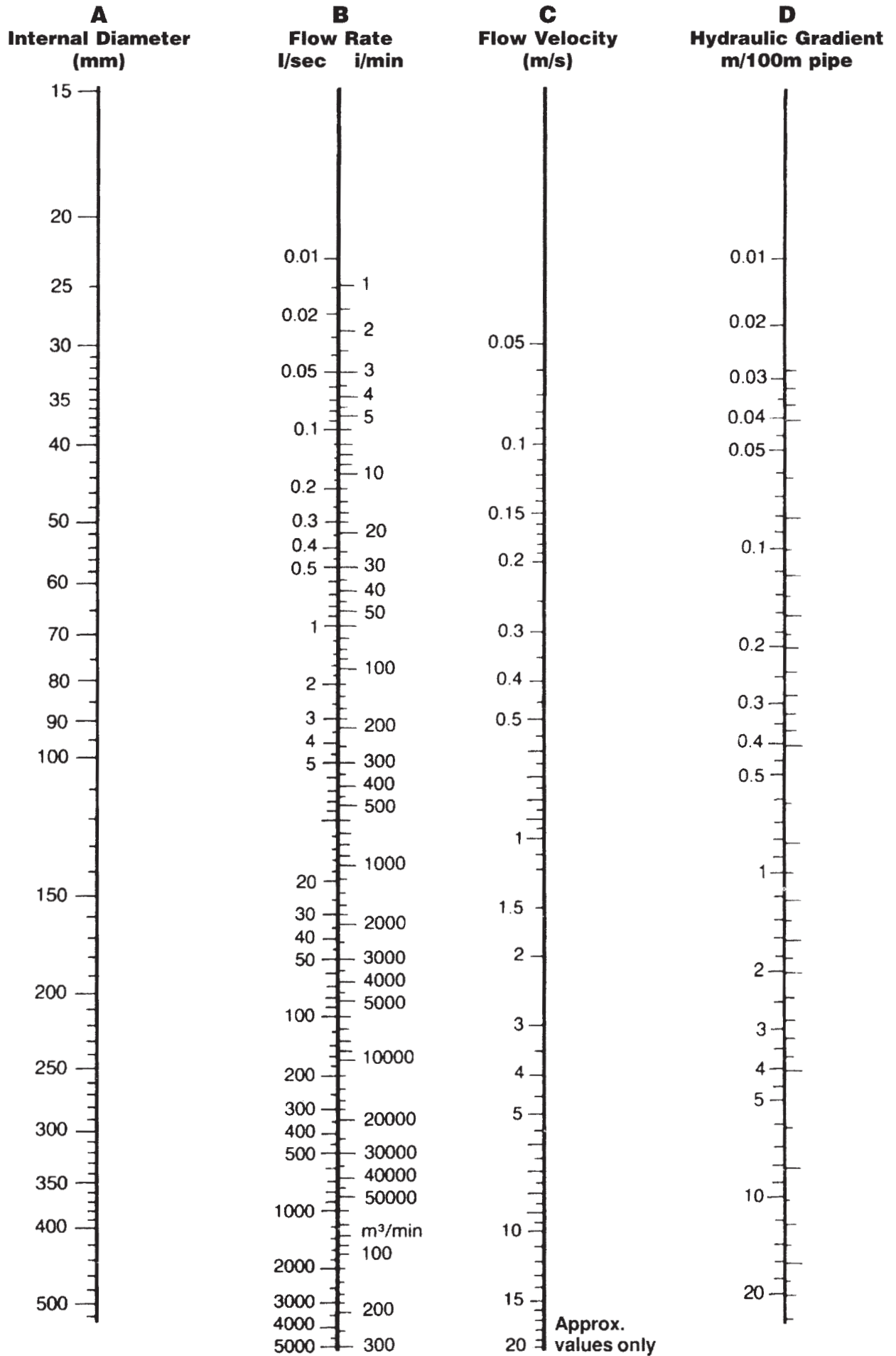
Standard dimension ratio				SDR 9				SDR 7.4			
Nominal outside diameter	Mean outside diameter		Out-of-roundness	Wall thickness		Mean inside diameter		Wall thickness		Mean inside diameter	
DN	Min.	Max.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
16	16.0	16.3	1.2	1.8	2.1	11.8	12.7	2.2	2.6	10.8	11.9
20	20.0	20.3	1.2	2.3	2.7	14.6	15.7	2.8	3.2	13.6	14.7
25	25.0	25.3	1.2	2.8	3.2	18.6	19.7	3.5	4.0	17.0	18.3
32	32.0	32.3	1.3	3.6	4.1	23.8	25.1	4.4	5.0	22.0	23.5
40	40.0	40.4	1.4	4.5	5.1	29.8	31.4	5.5	6.2	27.6	29.4
50	50.0	50.5	1.4	5.6	6.3	37.4	39.3	6.9	7.7	34.6	36.7
63	63.0	63.6	1.5	7.1	8.0	47.0	49.4	8.6	9.6	43.8	46.4
75	75.0	75.7	1.6	8.4	9.4	56.2	58.9	10.3	11.5	52.0	55.1
90	90.0	90.9	1.8	10.1	11.3	67.4	70.7	12.3	13.7	62.6	66.3
110	110.0	111.0	2.2	12.3	13.7	82.6	86.4	15.1	16.8	76.4	80.8
125	125.0	126.2	2.5	14.0	15.5	94.0	98.2	17.1	19.0	87.0	92.0
140	140.0	141.3	2.8	15.7	17.4	105.2	109.9	19.2	21.3	97.4	102.9
160	160.0	161.5	3.2	17.9	19.8	120.4	125.7	21.9	24.2	111.6	117.7
180	190.0	181.7	3.6	20.1	22.3	135A	141.5	24.6	27.2	125.6	132.5
200	200.0	201.8	4.0	22.4	24.8	150.4	157.0	27.3	30.2	139.6	147.2
225	225.0	227.1	4.5	25.1	27.8	169.4	176.9	30.8	34.0	157.0	165.5
250	250.0	252.3	5.0	27.9	30.8	198.4	196.5	34.2	37.8	174.4	183.9
280	280.0	282.6	9.8	31.3	34.6	210.8	220.0	38.3	42.3	195.4	206.0
315	315.0	317.9	11.1	35.2	38.9	237.2	247.5	43.0	47.4	220.2	231.9
355	355.0	358.2	12.5	39.6	43.7	267.6	279.0	48.5	53.5	248.0	261.2
400	400.0	403.6	14.0	44.7	49.3	301.4	314.2	54.6	60.2	279.6	294.4
450	450.0	454.1	15.6	50.2	55.4	339.2	353.7	61.5	67.8	314.4	331.1
500	500.0	504.5	17.5	55.8	61.5	377.0	392.9	68.1	75.3	349.3	368.3
560	560.0	565.1	19.6	62.8	69.4	421.2	439.4	85.1	93.7	372.6	394.7
630	630.0	635.7	22.1	70.6	78.1	473.8	494.4	95.9	105.6	418.8	443.9
710	710.0	716.4	24.9	78.9	86.9	536.2	558.6	108.1	119.0	472.0	900.2
800	800.0	807.2	28.0	88.9	97.9	604.2	629.4	—	—	—	—
900	900.0	908.1	31.5	100.0	110.1	679.8	708.1	—	—	—	—
1 000	1 000.0	1 009.0	35.0	111.1	122.3	755.4	786.8	—	—	—	—
1 200	1 200.0	1 210.0	42.0	—	—	—	—	—	—	—	—
1 400	1 400.0	1 410.0	49.0	—	—	—	—	—	—	—	—
1 600	1 600.0	1 610.0	56.0	—	—	—	—	—	—	—	—
1800	1800.0	1810.0	63.0	—	—	—	—	—	—	—	—
2000	2000.0	2010.0	70.0	—	—	—	—	—	—	—	—





FLOW NOMOGRAM (Approximate Values Only)

NOMOGRAMME DES DEBITS (valeurs approximatives)





## Properties of Polyethylene

## Propriétés du polyéthylène

### Typical values of most commonly used properties

Property	Test Method	PE80B	PE80C	PE100
Density kg/m <sup>3</sup>	ISO1183D, ISO1872-ZB	950	960	960
Tensile Yield Strength MPa	ISO527	20	21	23
Elongation at Yield %	ISO527	10	8	8
Tensile Break Strength MPa	ISO527	27	33	37
Elongation at Break %	ISO527	> 800	> 600	< 600
Tensile Modulus MPa Short term	ref. AS/NZS 2566	700	750	950
Long term	ref. AS/NZS 2566	200	210	260
Hardness Shore D	DIN 53505	59	60	64
Notched Impact Strength kJ/m <sup>2</sup> (23°C)	ISO179/1 e A	35	24	26
Melt Flow Rate 190/5, g/10min	ISO1133	0.7 - 1.0	0.4 - 0.5	0.3 - 0.5
Thermal Expansion x 10 <sup>-4</sup> /C	DIN 53752	2.4	1.8	2.4
Thermal Conductivity W/m.k (20°C)	DIN 52612	0.43	0.43	0.43
Crystalline Melt Point °C	DIN 53736	125	130	132
Dielectric Strength kV/mm	DIN 53481	70	53	53
Surface Resistivity Ohm	DIN 53482	> 10 <sup>15</sup>	> 10 <sup>15</sup>	> 10 <sup>15</sup>
Volume Resistivity Ohm	DIN 53482	> 10 <sup>15</sup>	> 10 <sup>15</sup>	> 10 <sup>15</sup>
Poissons Ratio μ		.4	.4	.4

## Support Spans (metres)

## Intervalles entre supports (mètres)

### Expansion & Contraction

For above ground pipelines, expansion and contraction movements should be taken up by the pipeline where possible without expansion joints.

This may be achieved in lines laid directly on the natural surface by snaking the pipe during installation and allowing the pipe to move freely in service. Where the final joint connections are made in high ambient temperature sufficient pipe length must be allowed to permit the pipe to cool, and hence contract without pulling out of non end load bearing joints.

### SDR (Standard Dimension Ratio)

DN	41	33	26	21	17	13.6	11	9	7.4
16	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
20	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.65	0.65
25	0.65	0.65	0.65	0.65	0.65	0.70	0.70	0.75	0.75
32	0.70	0.70	0.70	0.70	0.75	0.80	0.85	0.90	0.90
40	0.80	0.80	0.80	0.80	0.90	0.90	1.00	1.00	1.10
50	0.85	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25
63	0.95	1.00	1.05	1.10	1.20	1.25	1.30	1.40	1.45
75	1.00	1.10	1.20	1.25	1.35	1.40	1.50	1.55	1.60
90	1.15	1.25	1.35	1.40	1.50	1.60	1.65	1.75	1.80
110	1.35	1.40	1.55	1.60	1.70	1.80	1.90	2.00	2.10
125	1.45	1.55	1.65	1.75	1.85	2.00	2.10	2.20	2.30
140	1.55	1.65	1.80	1.90	2.00	2.10	2.25	2.35	2.45
160	1.70	1.80	1.95	2.10	2.20	2.30	2.45	2.55	2.65
180	1.85	1.95	2.10	2.25	2.35	2.50	2.65	2.80	2.90
200	1.95	2.10	2.25	2.40	2.55	2.70	2.85	3.00	3.10
225	2.15	2.30	2.45	2.60	2.75	2.90	3.05	3.20	3.35
250	2.30	2.45	2.60	2.75	2.95	3.10	3.30	3.45	3.60
280	2.45	2.65	2.80	3.00	3.20	3.35	3.55	3.70	3.90
315	2.65	2.85	3.05	3.25	3.45	3.65	3.85	4.05	4.20
355	2.90	3.10	3.30	3.50	3.75	3.95	4.15	4.35	4.55
400	3.10	3.35	3.55	3.80	4.05	4.25	4.50	4.70	4.90
450	3.40	3.60	3.85	4.10	4.35	4.60	4.85	5.10	5.35
500	3.60	3.85	4.15	4.40	4.75	4.95	5.20	5.50	
560	3.90	4.15	4.50	4.75	5.05	5.35			
630	4.20	4.50	4.85	5.15	5.45	5.80			
710	4.60	4.90	5.25	5.60	5.95	6.30			
800	4.95	5.30	5.70	6.05	6.45	6.85			
900	5.35	5.70	6.10	6.55	6.95				
1000	5.80	6.15	6.55	7.00	7.35				



# Technical references

## Pressure, liquid head, stress

Enter at left hand column and read horizontally

	kPa	lbf/in <sup>2</sup> (PSI)	kgf/cm <sup>2</sup>	ftH <sub>2</sub> O	mH <sub>2</sub> O	inHg	mmHg
kPa	1	0.145	0.0102	0.335	0.102	0.295	7.501
lbf/in <sup>2</sup> (PSI)	6.895	1	0.0703	2.307	0.703	2.036	51.71
kgf/cm <sup>2</sup>	98.067	14.22	1	32.808	10.0	28.96	735.6
ftH <sub>2</sub> O	2.984	0.433	0.0305	1	0.305	0.881	22.38
mH <sub>2</sub> O	9.789	1.42	0.1	3.28	1	2.896	73.55
inHg	3.386	0.491	0.035	1.135	0.346	1	25.4
mmHg	0.133	0.019	0.0014	0.045	0.014	0.039	1

100kPa = 1 bar

100kPa = 14.5 psi

## Other conversion factors

### length

1 in	= 25.4mm	1 mm	= 0.039 37 in
1 ft	= 0.3048m	1 m	= 3.280 84 ft
	= 304.8mm		

### area

1 in <sup>2</sup>	= 645.16mm <sup>2</sup>	1 mm <sup>2</sup>	= 0.00155 in <sup>2</sup>
1 ft <sup>2</sup>	= 0.0929m <sup>2</sup>	1 m <sup>2</sup>	= 10.7639ft <sup>2</sup>
1 hectare	= 2.471054 acres		
	= 10,000 m <sup>2</sup>		
1 km <sup>2</sup>	= 0.3861 mile <sup>2</sup>		

### volume

1 US gal	= 3.785 L	1 L	= 0.2642 US gal
1 imp gal	= 4.5461 L		= 0.2200 imp gal
1 in <sup>3</sup>	= 16387mm <sup>3</sup>	1 mm <sup>3</sup>	= 61 x 10. <sup>6</sup> in <sup>3</sup>
1 ft <sup>3</sup>	= 0.0283m <sup>3</sup>	1 m <sup>3</sup>	= 35.3147ft <sup>3</sup>

### velocity, speed

1 ft/s	= 0.3048 m/s	1 m/s	= 3.280 84 ft/s
1 mile/h	= 1.609 344 km/h		= 2.236 94 mile/h
	= 0.447 04 m/s	1 km/h	= 0.621 371 mile/h

### acceleration

1 ft/s <sup>2</sup>	= 0.3048m/s <sup>2</sup>	1 m/s	= 3.280 84 ft/s <sup>2</sup>
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### flow

1 US gal/min	= 0.63 L/s	1 L/s	= 15.85 US gal/min
	= 63.0915 x 10 <sup>6</sup> m <sup>3</sup> /s	1 m <sup>3</sup> /s	= 15850 US gal/min
	= 0.2271m <sup>3</sup> /h	1 m <sup>3</sup> /h	= 4.403 US gal/min
1 imp gal/min	= 0.076 L/s	1 L/s	= 13.2 imp gal/min
	= 0.2728 m <sup>3</sup> /h	1 m <sup>3</sup> /h	= 3.666 imp gal/min
1 ft <sup>3</sup> /min	= 0.472 L/s	1 L/s	= 2.1189 ft <sup>3</sup> /min
	= 1.699 m <sup>3</sup> /h	1 m <sup>3</sup> /h	= 0.5886 ft <sup>3</sup> /min

### mass

1 lb	= 0.454 kg	1 kg	= 2.205lb
1 ton	= 1.0160 t	1 t	= 0.9842 ton
1 ounce, troy	= 31.103 grams		

### mass per unit length

1 lb/ft	= 1.488 kg/m	1 kg/m	= 0.672 lb/ft
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# Références techniques

## mass per unit area

1 lb/ft <sup>2</sup>	= 4.882 43 kg/m <sup>2</sup>	1 kg/m <sup>2</sup>	= 0.204816 lb/ft <sup>2</sup>
1 oz/yd <sup>2</sup>	= 33.9057 g/m <sup>2</sup>	1 g/m <sup>2</sup>	= 0.029 494 oz/yd <sup>2</sup>
1 oz/ft <sup>2</sup>	= 305.152 g/m <sup>2</sup>		= 0.003 277 06 oz/ft <sup>2</sup>

## density (mass/unit volume)

1 lb/ft <sup>3</sup>	= 16.0185 kg/m <sup>3</sup>	1 kg/m <sup>3</sup>	= 0.062 428 lb/ft <sup>3</sup>
1 lb/yd <sup>3</sup>	= 0.593 278 kg/m <sup>3</sup>		= 1.685 56 lb/yd <sup>3</sup>
1 ton/yd <sup>3</sup>	= 1.328 94 t/m <sup>3</sup>	1 t/m <sup>3</sup>	= 0.752 48 ton/yd <sup>3</sup>

## mass per unit time

1 lb/s	= 0.453 592 kg/s	1 kg/s	= 2.204 62 lb/s
1 ton/h	= 1.016 05 t/h	1 t/h	= 0.984 207 ton/h

## force

1 lb force	= 4.448 N	1 N	= 0.225 lb force
	= 0.0044 kN	1 kN	= 224.81 lb force
1 kg force	= 9.807 N	1 N	= 0.102 kg force
	= 0.0098 kN	1 kN	= 101.97 kg force

## torque

1 lbf.ft	= 1.3558 N.m	1 N.m	= 0.7376 lbf.ft
1 kgf.m	= 9.8067 N.m		= 0.10197 kgf.m

## temperature

°F	= $\frac{5}{9}^{\circ}\text{C} + 32$	°C	= $\frac{5}{9}(^{\circ}\text{F} - 32)$
			= K - 273.15

## thermal expansion

1 in/ft	= 83.33 mm/m	1 mm/m	= 0.012 in/ft
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## work, energy, heat (1J = 1W.s)

1 kWh	= 3.6 MJ	1 MJ	= 0.277 778 kWh
1 Btu	= 1.055 06 kJ	1 kJ	= 0.947 817 Btu
	= 1055.06 J		
1 ft.lbf	= 1.355 82 J	1 J	= 0.737 562 ft.lbf

## power, heat flow rate

1 hp	= 0.745 700 kW		
	= 745.700 W	1 kW	= 1.341 02 hp
1 Btu/h	= 0.293 071W	1 W	= 3.412 14 Btu/h
1 ft.lbf/s	= 1.355 82 W		= 0.737 562 ft/lbf/s

## intensity of heat flow

1 Btu/(ft <sup>2</sup> ·h)	= 3.154 59 W/m <sup>2</sup>	1 W/m <sup>2</sup>	= 0.316 998 Btu/(ft <sup>2</sup> ·h)
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## thermal conductance (c value)

1 Btu/(ft <sup>2</sup> ·h·°F)	= 5.678 26 W/(m <sup>2</sup> ·K)	1 W/(m <sup>2</sup> ·K)	= 0.176 110 Btu/(ft <sup>2</sup> ·h·°F)
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## thermal conductance (k value)

1 Btu/(ft·h·°F)	= 1.730 73 W/(m·K)	1 W/(m·K)	= 0.577 789 Btu/(ft·h·°F)
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## calorific value

1 Btu/lb	= 2.326 kJ/kg	1 kJ/kg	= 0.429 923 Btu/lb
1 Btu/ft <sup>3</sup>	= 37.2589 kJ/m <sup>3</sup>	1 kJ/m <sup>3</sup>	= 0.026 839 2 Btu/ft <sup>3</sup>

## thermal capacity

1 Btu/(lb·°F)	= 4.1868 kJ/(kg·K)	1 kJ/(kg·K)	= 0.238 846 Btu/(lb·°F)
1 Btu/(ft <sup>3</sup> ·°F)	= 67.1066 kJ/(m <sup>3</sup> ·K)	1 kJ/(m <sup>3</sup> ·K)	= 0.014 910 7 Btu/(ft <sup>3</sup> ·°F)



## Standard world times

### Heure correspondante dans les différents fuseaux horaires

City & Country	GMT		
Adelaide (Australia)	21.30	Kuala Lumpur (Malaysia)	20.00
Alexandria (Egypt)	14.00	Kyoto (Japan)	21.00
Amsterdam (Netherlands)	13.00	Leningrad (USSR)	15.00
Athens (Greece)	14.00	Lisbon (Portugal)	12.00
Auckland (New Zealand)	24.00	London (UK)	12.00
Baghdad (Iraq)	15.00	Los Angeles (USA)	04.00
Bandung (Indonesia)	19.00	Madras (India)	17.30
Bangkok (Thailand)	19.00	Madrid (Spain)	13.00
Barcelona (Spain)	13.00	Manila (Philippines)	20.00
Beijing (China)	20.00	Melbourne (Australia)	22.00
Beirut (Lebanon)	14.00	Mexico City (Mexico)	06.00
Belgrade (Yugoslavia)	13.00	Miami (USA)	07.00
Berlin, West (Germany, Fed. Rep.)	13.00	Milan (Italy)	13.00
Berne (Switzerland)	13.00	Montreal (Canada)	07.00
Bombay (India)	17.30	Moscow (USSR)	15.00
Bonn (Germany, Fed. Rep.)	13.00	Munich (Germany, Fed. Rep.)	13.00
Boston (USA)	07.00	Naples (Italy)	13.00
Brisbane (Australia)	22.00	New Orleans (USA)	06.00
Brussels (Belgium)	13.00	New York (USA)	07.00
Budapest (Hungary)	13.00	Osaka (Japan)	21.00
Buenos Aires (Argentina)	09.00	Oslo (Norway)	13.00
Cairo (Egypt)	14.00	Paris (France)	13.00
Calcutta (India)	17.30	Perth (Australia)	20.00
Canberra (Australia)	22.00	Philadelphia (USA)	07.00
Chicago (USA)	06.00	Port Moresby (Papua New Guinea)	22.00
Chongqing (China)	20.00	Prague (Czechoslovakia)	13.00
Cologne (Germany, Fed. Rep.)	13.00	Pusan (South Korea)	21.00
Colombo (Sri Lanka)	17.30	Quebec (Canada)	07.00
Copenhagen (Denmark)	13.00	Rangoon (Burma)	18.30
Dallas (USA)	06.00	Rio de Janeiro (Brazil)	09.00
Darwin (Australia)	21.30	Rome (Italy)	13.00
Delhi (India)	17.30	Rotterdam (Netherlands)	13.00
Detroit (USA)	07.00	San Francisco (USA)	04.00
Dublin (Ireland)	12.00	Seoul (South Korea)	21.00
Frankfurt (Germany, Fed. Rep.)	13.00	Shanghai (China)	20.00
Geneva (Switzerland)	13.00	Singapore (Singapore)	20.00
Hamburg (Germany, Fed. Rep.)	13.00	Stockholm (Sweden)	13.00
Havana (Cuba)	07.00	Sydney (Australia)	22.00
Helsinki (Finland)	14.00	Taipei (Taiwan)	20.00
Hobart (Australia)	22.00	Tokyo (Japan)	21.00
Ho Chi Minh City (Vietnam)	19.00	Toronto (Canada)	07.00
Honolulu (USA)	02.00	Vancouver (Canada)	04.00
Houston (USA)	06.00	Vienna (Austria)	13.00
Islamabad (Pakistan)	17.00	Warsaw (Poland)	13.00
Istanbul (Turkey)	15.00	Washington (USA)	07.00
Jakarta (Indonesia)	19.00	Wellington (New Zealand)	24.00
Karachi (Pakistan)	17.00	Yokohama (Japan)	21.00
Kowloon (Hong Kong)	20.00	Zurich (Switzerland)	13.00
		Xi'an (China)	20.00



## Any Year Calendar Calendrier pour n'importe quelle année

The number opposite each of the hundred years in the list below indicates which of the following calendars is the one for that year. Thus the number opposite 1994 is 7, so calendar 7 can be used for 1994.

Leap years occur in years exactly divisible by four, except that years ending in 00 must be divisible by 400 to be leap years. Thus, 1600, 1984 and 2000 are leap years, but 1800 and 1900 are not.

Easter Day is currently determined as the first Sunday after the full moon on or after March 21.

1921.....7	1947.....4	1973.....2	1999.....6	2025.....4
1922.....1	1948.....12	1974.....3	2000.....14	2026.....5
1923.....2	1949.....7	1975.....4	2001.....2	2027.....6
1924.....10	1950.....1	1976.....12	2002.....3	2028.....14
1925.....5	1951.....2	1977.....7	2003.....4	2029.....2
1926.....6	1952.....10	1978.....1	2004.....12	2030.....3
1927.....7	1953.....5	1979.....2	2005.....7	2031.....4
1928.....8	1954.....6	1980.....10	2006.....1	2032.....12
1929.....3	1955.....7	1981.....5	2007.....2	2033.....7
1930.....4	1956.....8	1982.....6	2008.....10	2034.....1
1931.....5	1957.....3	1983.....7	2009.....5	2035.....2
1932.....13	1958.....4	1984.....8	2010.....6	2036.....10
1933.....1	1959.....5	1985.....3	2011.....7	2037.....5
1934.....2	1960.....13	1986.....4	2012.....8	2038.....6
1935.....3	1961.....1	1987.....5	2013.....3	2039.....7
1936.....11	1962.....2	1988.....13	2014.....4	2040.....8
1937.....6	1963.....3	1989.....1	2015.....5	2041.....3
1938.....7	1964.....11	1990.....2	2016.....13	2042.....4
1939.....1	1965.....6	1991.....3	2017.....1	2043.....5
1940.....9	1966.....7	1992.....11	2018.....2	2044.....13
1941.....4	1967.....1	1993.....6	2019.....3	2045.....1
1942.....5	1968.....9	1994.....7	2020.....11	2046.....2
1943.....6	1969.....4	1995.....1	2021.....6	2047.....3
1944.....14	1970.....5	1996.....9	2022.....7	2048.....11
1945.....2	1971.....6	1997.....4	2023.....1	2049.....6
1946.....3	1972.....14	1998.....5	2024.....9	2050.....7

1

January	February	March
M T W T F S S 30 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	M T W T F S S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	M T W T F S S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
April	May	June
M T W T F S S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	M T W T F S S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	M T W T F S S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
July	August	September
M T W T F S S 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	M T W T F S S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	M T W T F S S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
October	November	December
M T W T F S S 30 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	M T W T F S S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	M T W T F S S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

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January	February	March
M T W T F S S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	M T W T F S S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	M T W T F S S 30 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29
April	May	June
M T W T F S S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	M T W T F S S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	M T W T F S S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
July	August	September
M T W T F S S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	M T W T F S S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	M T W T F S S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
October	November	December
M T W T F S S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	M T W T F S S 30 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	M T W T F S S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

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January	February	March
M T W T F S S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	M T W T F S S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	M T W T F S S 30 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29
April	May	June
M T W T F S S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	M T W T F S S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	M T W T F S S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
July	August	September
M T W T F S S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	M T W T F S S 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	M T W T F S S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
October	November	December
M T W T F S S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	M T W T F S S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	M T W T F S S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

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January	February	March
M T W T F S S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	M T W T F S S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	M T W T F S S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
April	May	June
M T W T F S S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	M T W T F S S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	M T W T F S S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
July	August	September
M T W T F S S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	M T W T F S S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	M T W T F S S 30 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29
October	November	December
M T W T F S S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	M T W T F S S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	M T W T F S S 30 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29

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January	February	March
M T W T F S S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	M T W T F S S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	M T W T F S S 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
April	May	June
M T W T F S S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	M T W T F S S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	M T W T F S S 30 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29
July	August	September
M T W T F S S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	M T W T F S S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	M T W T F S S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
October	November	December
M T W T F S S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	M T W T F S S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	M T W T F S S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31





## 2

January							February							March						
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S
1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7
8	9	10	11	12	13	14	5	6	7	8	9	10	11	5	6	7	8	9	10	11
15	16	17	18	19	20	21	12	13	14	15	16	17	18	12	13	14	15	16	17	18
22	23	24	25	26	27	28	19	20	21	22	23	24	25	19	20	21	22	23	24	25
29	30	31					26	27	28					26	27	28	29	30	31	
April							May							June						
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S
30						1	1	2	3	4	5	6	7	1	2	3	4	5	6	7
2	3	4	5	6	7	8	7	8	9	10	11	12	13	4	5	6	7	8	9	10
8	9	10	11	12	13	14	14	15	16	17	18	19	20	11	12	13	14	15	16	17
16	17	18	19	20	21	22	21	22	23	24	25	26	27	18	19	20	21	22	23	24
23	24	25	26	27	28	29	28	29	30	31				25	26	27	28	29	30	
July							August							September						
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S
30	31					1	1	2	3	4	5	6	7	1	2	3	4	5	6	7
2	3	4	5	6	7	8	6	7	8	9	10	11	12	3	4	5	6	7	8	9
9	10	11	12	13	14	15	13	14	15	16	17	18	19	10	11	12	13	14	15	16
16	17	18	19	20	21	22	20	21	22	23	24	25	26	17	18	19	20	21	22	23
23	24	25	26	27	28	29	27	28	29	30	31			24	25	26	27	28	29	30
October							November							December						
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S
1	2	3	4	5	6	7	1	2	3	4	5	6	7	31						1
8	9	10	11	12	13	14	5	6	7	8	9	10	11	3	4	5	6	7	8	9
15	16	17	18	19	20	21	12	13	14	15	16	17	18	10	11	12	13	14	15	16
22	23	24	25	26	27	28	19	20	21	22	23	24	25	17	18	19	20	21	22	23
29	30	31					26	27	28	29	30			24	25	26	27	28	29	30

## 6

January							February							March						
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S
						1	1	2	3	4	5	6	7	1	2	3	4	5	6	7
4	5	6	7	8	9	10	8	9	10	11	12	13	14	8	9	10	11	12	13	14
11	12	13	14	15	16	17	15	16	17	18	19	20	21	15	16	17	18	19	20	21
18	19	20	21	22	23	24	22	23	24	25	26	27	28	22	23	24	25	26	27	28
25	26	27	28	29	30	31	29	30	31					29	30	31				
April							May							June						
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S
						1	31						1	1	2	3	4	5	6	7
5	6	7	8	9	10	11	3	4	5	6	7	8	9	7	8	9	10	11	12	13
12	13	14	15	16	17	18	10	11	12	13	14	15	16	14	15	16	17	18	19	20
19	20	21	22	23	24	25	17	18	19	20	21	22	23	21	22	23	24	25	26	27
26	27	28	29	30			24	25	26	27	28	29	30	28	29	30				
July							August							September						
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S
						1	30	31					1	1	2	3	4	5	6	7
5	6	7	8	9	10	11	2	3	4	5	6	7	8	6	7	8	9	10	11	12
12	13	14	15	16	17	18	9	10	11	12	13	14	15	13	14	15	16	17	18	19
19	20	21	22	23	24	25	16	17	18	19	20	21	22	20	21	22	23	24	25	26
26	27	28	29	30	31		23	24	25	26	27	28	29	27	28	29	30			
October							November							December						
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S
						1	1	2	3	4	5	6	7	1	2	3	4	5	6	7
4	5	6	7	8	9	10	8	9	10	11	12	13	14	6	7	8	9	10	11	12
11	12	13	14	15	16	17	15	16	17	18	19	20	21	13	14	15	16	17	18	19
18	19	20	21	22	23	24	22	23	24	25	26	27	28	20	21	22	23	24	25	26
25	26	27	28	29	30	31	29	30						27	28	29	30	31		

## 12

January							February							March						
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S
						1	1	2	3	4	5	6	7	1	2	3	4	5	6	7
5	6	7	8	9	10	11	2	3	4	5	6	7	8	8	9	10	11	12	13	14
12	13	14	15	16	17	18	9	10	11	12	13	14	15	15	16	17	18	19	20	21
19	20	21	22	23	24	25	16	17	18	19	20	21	22	22	23	24	25	26	27	28
26	27	28	29	30	31		23	24	25	26	27	28	29	29	30	31				
April							May							June						
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S
						1	31						1	1	2	3	4	5	6	7
5	6	7	8	9	10	11	3	4	5	6	7	8	9	7	8	9	10	11	12	13
12	13	14	15	16	17	18	10	11	12	13	14	15	16	14	15	16	17	18	19	20
19	20	21	22	23	24	25	17	18	19	20	21	22	23	21	22	23	24	25	26	27
26	27	28	29	30			24	25	26	27	28	29	30	28	29	30				
July							August							September						
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S
						1	30	31					1	1	2	3	4	5	6	7
5	6	7	8	9	10	11	2	3	4	5	6	7	8	6	7	8	9	10	11	12
12	13	14	15	16	17	18	9	10	11	12	13	14	15	13	14	15	16	17	18	19
19	20	21	22	23	24	25	16	17	18	19	20	21	22	20	21	22	23	24	25	26
26	27	28	29	30	31		23	24	25	26	27	28	29	27	28	29	30			
October							November							December						
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S
						1	1	2	3	4	5	6	7	1	2	3	4	5	6	7
4	5	6	7	8	9	10	8	9	10	11	12	13	14	6	7	8	9	10	11	12
11	12	13	14	15	16	17	15	16	17	18	19	20	21	13	14	15	16	17	18	19
18	19	20	21	22	23	24	22	23	24	25	26	27	28	20	21	22	23	24	25	26
25	26	27	28	29	30	31	29	30						27	28	29	30	31		

## 3

January
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### **Background**

Polymer Fusion Technology ( PFT ) was established as a quality testing facility and educational body, specializing in the growth industry of polyethylene products .

### **Scope of Business**

PFT now has an accredited NATA laboratory , specializing in quality testing of field welded joints , used in the installation of polyethylene pipe lines .

PFT has a modern well equipped laboratory with a range of test equipment capable of testing weld joints and pipe to the applicable International Standards .

### **Teaching Trades People to Weld**

PFT are accredited by TAC to teach Butt welding , Extrusion and Electrofusion welding . PFT hold courses in their modern training establishment at Welshpool WA, or teaching staff are available to visit site.

PFT retains its important role in the polymer industry as the need for education growth with the prevalent use of polyethylene and the increased requirement for quality control.



Coils from 25mm to 110 O/D



Urgent pipe being loaded for Lihir Goldmine, PNG





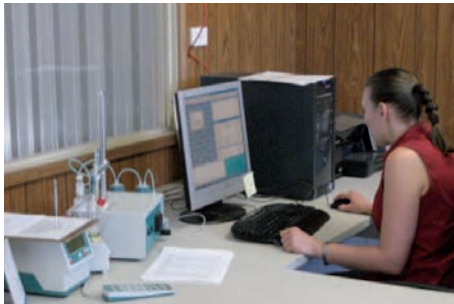
Kingston Bridge Engineering Pty Ltd step into the future with our new 2 meter pipe extruders



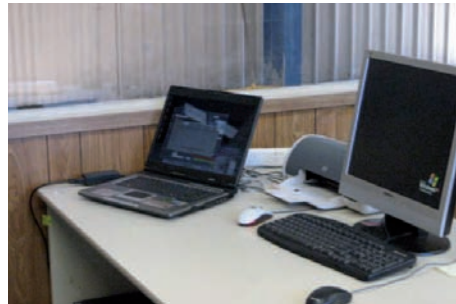
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## Lab Testing Facilities



Testing for moisture content in  
polyethylene resin.



Hydrostatic Recording Equipment  
Controlling hydrostatic tests at  
80° Centigrade for 165 & 1000 Hrs.



Thermal Stability Test  
O.I.T. equipment for all materials.



Kingston Bridge Engineering Pty Ltd made 1.2 meter  
SDR11 polyethylene pipe being welded.



# kingston bridge engineering pty ltd



## product catalogue

2007

**kingston bridge  
engineering pty ltd**  
ABN 38 068 106 356



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