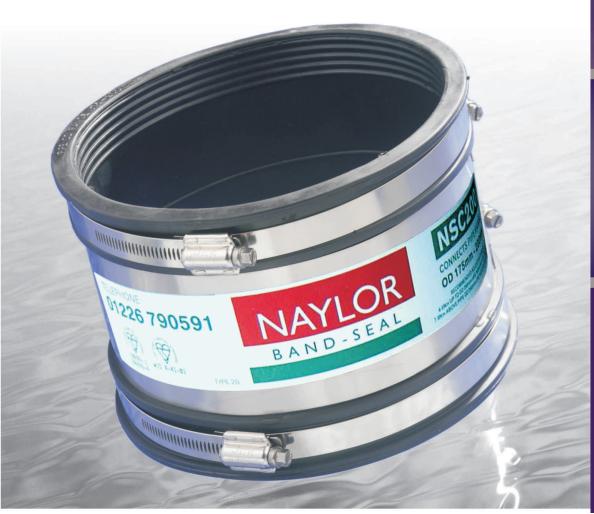


DUREY CASTINGS LTD HAWLEY ROAD DARTFORD KENT DA1 1PU

Band-Seal Couplings







Flexible Couplings

for the repair of and connections into existing pipelines

email: sales@dureycastings.co.uk













Introduction

Naylor, a manufacturer of building materials since 1890, has a wealth of experience in manufacturing techniques with a reputation for service, in-depth ranges, quality products and value for money.

Band-Seal is a range of versatile, flexible couplings used for jointing pipes of both similar and different materials and sizes. The couplings are especially suitable for drains, sewers and underground pipelines. The extensive range connects pipes from 24mm to over 2000mm nominal size (DN), to other pipes of the same or different sizes and material.

The Band-Seal range of couplings consists of moulded synthetic elastomeric sleeves and stainless steel clamping bands. Standard Couplings also include a stainless steel shear band. A wide range of Bushes, Tools and End Caps complete the range.

Band-Seal Couplings are manufactured to exacting standards and are used and specified extensively by Water Companies and Local Authorities throughout the UK as well as being distributed worldwide.

Ordering Details

Obtain the sizes and materials of the pipes/junctions to be jointed. It is preferred that precise outside diameters are confirmed for each pipe, preferably by direct measurement on site. Reference to inside diameters and pipe material will not normally be sufficient to identify outside diameters. The pipe table (page 14) provides guidance on the outside diameter of the more common types and sizes of pipes but is not a substitute for pipe measurement on site. For pipes up to DN300, reference can also be made to the lists of typical connections.

All couplings and bushes over 600mm diameter are manufactured to suit specific site requirements therefore measurement of the outside diameters of the pipes to be joined is essential. It is recommended to take into consideration possible restrictions on site as the use of Band-Seal will require access to both sides of the pipe. For this reason it may be advisable to order a slightly larger Band-Seal Coupling for ease of installation.

the Bush Reference (where required) from

Durey Castings Limited 01

01322 272424

or

Durey Castings South Coast 01323 441110

Availability

Naylor maintains comprehensive stocks of all types of Band-Seal Couplings and Bushes at Cawthorne, South Yorkshire, for England and Wales and Methil, Fife, for Scotland and Ireland.

The most popular sizes and types of coupling are readily available for Depots, Builders' Merchants or specialist Band-Seal Stockists throughout Britain.

Couplings and Bushes, which are specially manufactured to suit specific site

requirements, are usually produced and supplied direct from either Cawthorne or Methil within 24 hours.

24 Hour Emergency Hotline 0808 1780 161

Delivery -A New and Improved Specials Service

A 'Next Day' delivery service is available including before noon and before 10.30am options using overnight carrier services from our main factory at Cawthorne for England and Wales and from Methil for Scotland and Ireland. For emergency repairs we can also offer a 'Same Day' service throughout the UK.

2

laylor Band Seal

Order the components

using the Coupling Reference and

The Naylor Band-Seal Range

Standard Couplings



These couplings comply with the requirements of WIS 4-41-01 and are specifically designed for jointing pipes in sewerage, drainage and similar non-pressure applications where resistance to shear loads is required.

- On public sewers where couplings complying with WIS 4-41-01 are specified
- Repair and maintenance of existing pipelines
- Connections between pipes of different materials or sizes (Bushes may be required in these circumstances)
- Making connections by the insertion of new junctions into an existing pipeline
- Reconnection of laterals on renovated sewers
- Introducing rocker or hinge pipes outside manholes or structures
- Jointing short or cut lengths of pipe

Couplin	ıg Ref.	Min OD (mm)	Max OD (mm)	Width (mm)	Box Qty
NSC	115	100	115	120	20
NSC	121	105	121	120	20
NSC	125	110	125	120	20
NSC	137	120	137	120	20
NSC	142	125	142	120	12
NSC	150	130	150	150	12
NSC	165	140	165	150	12
NSC	175	150	175	150	10
NSC	182	160	182	150	10
NSC	200	175	200	150	10
NSC	215	190	215	150	8
NSC	225	200	225	150	6
NSC	250	225	250	150	6
NSC	275	250	275	150	6
NSC	290	265	290	150	5
NSC	310	285	310	190	3
NSC	320	300	320	190	3
NSC	335	305	335	190	3
NSC	345	315	345	190	4
NSC	365	340	365	190	4
NSC	385	355	385	190	4
NSC	412	385	412	190	2
NSC	425	400	425	190	2
NSC	430	405	430	190	2
NSC	445	420	445	190	2
NSC	465	435	465	190	2
NSC	475	445	475	190	2
NSC	495	465	495	190	2
NSC	510	480	510	190	2
NSC	525	495	525	190	2
NSC	540	510	540	190	2
NSC	550	520	550	190	2
NSC	560	530	560	190	2
NSC	580	555	580	190	2
NSC	600	570	600	190	2
NSC	620	590	620	190	2
216 Stainlage	Stool b	ande ara availahla	on all of the abo	VO	

316 Stainless Steel bands are available on all of the above

Large Standard Couplings

As the items are made to order to suit specific site requirements: please specify dimensions required when ordering.

Note: The size range is an indication of size for pricing purposes only. Couplings are manufactured to meet customer requirements. Please consider that the size you request will be the maximum size that the coupling will be manufactured to. For ease of installation you may require a slightly larger size.

Coupling Ref.	Min OD (mm)	Max OD (mm)	Width (mm)	Box Qty	
NSC 601	601	699	190	N/A	
NSC 700	700	799	190	N/A	
NSC 800	800	899	190	N/A	
NSC 900	900	999	190	N/A	
NSC 1000	1000	1099	190	N/A	
NSC 1100	1100	1199	190	N/A	
NSC 1200	1200	1299	190	N/A	
NSC 1300	1300	1399	190	N/A	
NSC 1400	1400	1499	190	N/A	
NSC 1500	1500	1599	190	N/A	
NSC 1600	1600	1699	190	N/A	
NSC 1700	1700	1799	190	N/A	
NSC 1800	1800	1899	190	N/A	
NSC 1900	1900	1999	190	N/A	
NSC 2000	2000	3000	190	N/A	
NSC 3000	3000	4000	190	N/A	
316 Stainless Steel hands are available on all of the above					

316 Stainless Steel bands are available on all of the above

Extra Wide Couplings



Naylor Extra Wide Couplings are used predominantly for jointing pipes with a diameter greater than 1000mm but they are available to suit pipes with an outside diameter of 200mm upwards.

Naylor Extra Wide Couplings have a width of 300mm which allows a greater tolerance when cutting larger diameter pipes. The increased width also accommodates the greater movement of the joints associated with the depths at which these large diameter pipes are laid.

Note: The size range is an indication for pricing purposes only. Couplings are manufactured to meet customer requirements.

Coupling Ref.	Min OD (mm)	Max OD (mm)	Width (mm)	Box Qty
NWC 601	601	699	300	N/A
NWC 700	700	799	300	N/A
NWC 800	800	899	300	N/A
NWC 900	900	999	300	N/A
NWC 1000	1000	1099	300	N/A
NWC 1100	1100	1199	300	N/A
NWC 1200	1200	1299	300	N/A
NWC 1300	1300	1399	300	N/A
NWC 1400	1400	1499	300	N/A
NWC 1500	1500	1599	300	N/A
NWC 1600	1600	1699	300	N/A
NWC 1700	1700	1799	300	N/A
NWC 1800	1800	1899	300	N/A
NWC 1900	1900	1999	300	N/A
NWC 2000	2000	3000	300	N/A
NWC 3000	3000	4000	300	N/A

316 Stainless Steel bands are available on all of the above

Note: For sizes 200-600mm diameter please contact our Sales Department

indard Couplings

Typical Cor	nnections - Stan
NSC 121 110mm 100mm 100mm 100mm 100mm	Cast Iron (BS416) Stainless Steel Cast Iron (BS437)
NSC 100mm 100mm	
NSC 160mm 150mm 150mm 160mm	Cast Iron (smu/ensign/sml) Stainless Steel
NSC 175 160mm 150mm 150mm 150mm 150mm 150mm	Cast Iron (BS416) Cast Iron (BS437) Stainless Steel
NSC 200 150mm 200mm	Concrete Asbestos Cement Pitch Fibre
NSC 200mm	Pitch Fibre Vitrified Clay Asbestos Cement Ultra-Rib Quantum PVCu
NSC 250mm 250mm	Ductile Iron Cast Iron
NSC 290 225mm 225mm 225mm 225mm 250mm 250mm	Supersleve Concrete (OD Up To 290)
NSC 385 300mm 300mm 300mm 300mm 300mm	Densleeve Supersleve
300mm	Concrete (OD Up To 385)



Bushes



Manufactured from synthetic elastomers and available in a variety of sizes and thicknesses to allow the Standard range of couplings to connect pipes which may have a considerable difference in their outside diameters.

They are used where the difference in the outside diameter of the pipes to be jointed exceeds 12mm and an Adaptor Coupling is not available.

Generally used singularly but multiple bush sets may be used.

Available in diameters up to 2000mm and in four thicknesses 8mm, 16mm, 24mm and 32mm.

Note 1: The size range is an indication of size for pricing purposes only. Bushes are manufactured to meet specific customer requirements.

Note 2: For bushes over 1000mm diameter please contact our Sales Department.

8 Bush Ref.	OD Between (mm)
BC 0801	170-199
BC 0802	200-299
BC 0803	300-399
BC 0804	400-499
BC 0805	500-599
BC 0806	600-699
BC 0807	700-799
BC 0808	800-899
BC 0809	900-999
BC 0810	1000-1099
BC 0811	1100-1199
BC 0812	1200-1299

16 Bush Ref.	OD Between (mm)
BC 1601	190-199
BC 1602	200-299
BC 1603	300-399
BC 1604	400-499
BC 1605	500-599
BC 1606	600-699
BC 1607	700-799
BC 1608	800-899
BC 1609	900-999

24	Bush Ref.	OD Between (mm)
	BC 2402	250-299
	BC 2403	300-399
	BC 2404	400-499
	BC 2405	500-599
	BC 2406	600-699
	BC 2407	700-799
	BC 2408	800-899
	BC 2409	900-999
·		

32 Bush Re	. OD Between (mm)
BC 320-	400-499
BC 320	5 500-599
BC 320	600-699
BC 320	7 700-799
BC 320	800-899
BC 320	900-999

Chemical Couplings



The range of Hathernware chemically resistant Band-Seal couplings offers the chemical and process industries the advantage of a modern, mechanical, flexible jointing system for any plain end pipe system, including Naylor's Hathernware "Thermachem" range of thermal shock and chemically resistant pipes.

Elastomeric Sleeve - Manufactured in EPDM or NITRILE conforming to BS EN681-1.

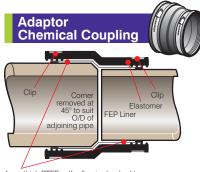
Shear Clamping Bands - Manufactured in corrosion Grade 1.4301 (304) resistant austenitic stainless steel to BS EN10088-2. Where external contamination demands a higher quality stainless, this can be supplied to order.

Fluoropolymer Liner - A one piece seamless FEP element located within the elastomeric sleeve. Expanded PTFE secondary seals ensure a leak tight joint between FEP and the pipe. For the best results and to ensure a close fit between the liner and pipe, the FEP liner is heat shrunk on site. The liner and seal are chemically inert and resistant to virtually all chemicals.

Standard Couplings - Used for jointing pipes of the same outside diameter **Adaptor Couplings** - Available where pipes of different diameter require connecting.

Standard Chemical Coupling Clip FEP Liner Elastomer

1mm thick PTFE self adhesive backed tape positioned on pipes with slight overlap at joint. See heat shrink installation instructions



1mm thick PTFE self adhesive backed tape positioned on pipes with slight overlap at joint. See heat shrink installation instructions.

Pipe Bore (mm)	Gap Between Pipe Ends (mm)
100 & 150	5
225 & 300	10
380 & 450	15
600 & above	20

Torque Setting

For all couplings 12Nm

Chemical Coupling - Installation Instructions

Ensure the correct size coupling is used to suit pipe or fitting size. Consult the Naylor Hathernware Technical Department on 01226 794074 for advice.

Pipes and Fittings

- All ends in the area of the coupling to be clean and free from grit or dirt.
- All cutting to be a single clean cut by a suitable disc cutter ensuring cut end has all burrs or snags ground off flat.
- All ends, whether site cut or not, to have sharp edges or corners removed and chamfered on the outer edge a minimum of 5mm x 45°. This is most important to avoid damage to the chemical resistant FEP liner.

Procedure

For couplings/adaptors with site fitted heat shrink sleeves:

- Place FEP sleeve and coupling onto 1st pipe.
- Align second pipe leaving appropriate gap. See table attached.
- Slide sleeve into position centrally over joint and mark sleeve ends onto pipe.
- Slide sleeve back onto 1st pipe.
- Place PTFE tape around pipe so self adhesive backing adheres to the pipe in such a position that the outer edge of the tape aligns with marks for outer edge of FEP sleeve. At the top of the pipe overlap the tape 5mm.
- Reposition sleeve over joint covering sealing tape.
- Apply hot air to shrink sleeve onto pipe face and PTFE tapes. (The hot air gun should be kept in motion at all times to avoid scorching the FEP liner). Work all around FEP liner to ensure whole area is tight down onto pipe face and PTFE tape either side of pipe gap.

- Position coupling/adaptor centrally over sleeve.
- Tighten all clamps equally working from the centre outwards in equal stages using 4" lever ratchet and socket or socket style screwdriver to specified torque.

For couplings fitted with pre-shrunk FEP liners incorporating expanded PTFE secondary seals.

- Slide coupling over 1st pipe taking care not to dislodge the PTFE seal.
- Align second pipe leaving a 5mm gap.
- Position coupling centrally across joint.
- Tighten all clamps equally working from the centre outwards in equal stages using 4" lever ratchet and socket or socket style screwdriver to specified torque.

Additional Protection

In ground where contaminants may degrade stainless steel or the elastomer, the following additional procedure shall apply.

- Two layers of Denso tape or similar shall be wound around the coupling to completely encase same and adjacent pipe area to avoid salts penetration to the coupling.
- In more severe conditions the coupling and adjacent pipe area shall be encased in a heat shrunk polyethylene sleeve or tape with hot melt glue adhesive backing as manufactured by Raychem.

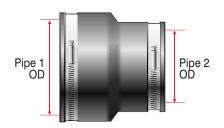
These protective materials shall be installed in accordance with their manufacturers instructions and shall entirely encase the coupling and 50mm minimum of adjacent nine.

It is advantageous to place a small block of resilient material over the worm drives and threaded clip ends to avoid these projections from penetrating the protective layer.

Adaptor Couplings



Provide an inexpensive method of directly jointing pipes of differing outside diameters, without the need to use bushes. The most common application is for connecting PVC-u pipes to a variety of other pipe materials including vitrified clay. These couplings are also suitable for connecting other types of pipes including cast iron and metal pipes (up to a maximum outside diameter of 420mm).



Universal Adaptors

Coupling Ref.	Pipe 1 OD Pipe 2 OD (mm) (mm)	Width (mm)	Old Ref
NAC 4000	121/137 to 110/121	100	NAC 1212
NAC 6000	180/200 to 160/180	150	NAC 1804
NAC 9001	260/285 to 180/205	150	NAC 2601

Drainage Adaptors

Coupling Ref.	Pipe 1 OD Pipe 2 OD	Width	Old Ref
NAC 1000	(mm) (mm) 97/102 to 86/91	(mm) 70	NAC 1000
NAC 1000	100/115 to 40/50	102	NAC 1000
NAC 1153	100/115 to 50/64	102	NAC 1001
NAC 1154	100/115 to 75/90	95	NAC 1002 NAC 1003
NAC 1133	110/122 to 80/95	120	NAC 1003
NAC 1226	115/122 to 61/68	90	NAC 1004
NAC 5144	110/125 to 100/115	120	NAC 1102
NAC 1361	121/136 to 80/95	120	NAC 1211
NAC 1362	121/136 to 100/115	90	NAC 1213
NAC 1370	122/137 to 75/90	100	NAC 1221
NAC 1452	130/145 to 110/125	120	NAC 1302
NAC 1521	137/152 to 100/115	120	NAC 1371
NAC 1602	144/160 to 110/122	120	NAC 1442
NAC 1603	144/160 to 121/136	120	NAC 1443
NAC 1681	153/168 to 100/115	150	NAC 1531
NAC 1703	155/170 to 130/145	120	NAC 1553
NAC 1762	155/176 to 110/125	120	NAC 1552
NAC 1801	166/181 to 100/115	150	NAC 1661
NAC 1802	166/181 to 110/125	150	NAC 1662
NAC 1922	170/192 to 110/122	120	NAC 1704
NAC 1923	170/192 to 121/136	120	NAC 1705
NAC 1924	170/192 to 144/160	120	NAC 1706
NAC 1981	183/198 to 100/115	155	NAC 1831
NAC 1983	180/198 to 122/137	150	NAC 1801
NAC 2000	180/200 to 130/145	150	NAC 1800
NAC 2002	180/200 to 110/121	150	NAC 1802
NAC 2003	180/200 to 155/170	150	NAC 1803
NAC 2061	190/206 to 100/115	150	NAC 1901
NAC 2063	190/206 to 138/153	150	NAC 1903
NAC 2121	185/212 to 100/115	150	NAC 1852
O1C Chaireless C	N. 11 1 21 1	ما الما	il l · · -

316 Stainless Steel bands are available on all of the above

Drainage Adaptors (continued)

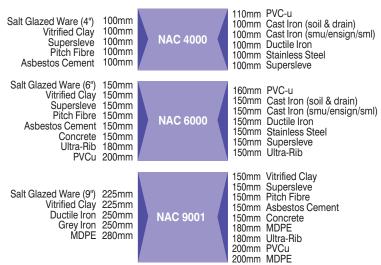
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Coupling Ref.	Pipe 1 OD Pipe 2 OD (mm) (mm)	Width (mm)	Old Ref
NAC 2154	190/215 to 150/165	150	NAC 1904
NAC 2164	185/216 to 160/180	150	NAC 1851
NAC 2254	200/225 to 160/175	150	NAC 2001
NAC 2352	210/235 to 110/122	150	NAC 2102
NAC 2353	210/235 to 121/136	150	NAC 2103
NAC 2354	210/235 to 144/160	150	NAC 2104
NAC 2355	210/235 to 170/192	150	NAC 2105
NAC 2356	210/235 to 190/215	150	NAC 2106
NAC 2654	240/265 to 144/160	150	NAC 2404
NAC 2655	240/265 to 170/192	155	NAC 2405
NAC 2656	240/265 to 190/215	150	NAC 2406
NAC 2657	240/265 to 210/235	155	NAC 2407
NAC 2756	250/275 to 200/225	165	NAC 2502
NAC 2855	260/285 to 240/265	150	NAC 2602
NAC 2904	265/290 to 144/160	150	NAC 2658
NAC 2907	265/290 to 210/235	150	NAC 2659
NAC 3167	301/316 to 259/274	165	NAC 3011
NAC 3204	295/320 to 144/160	165	NAC 2954
NAC 3205	295/320 to 170/192	150	NAC 2955
NAC 3207	295/320 to 210/235	150	NAC 2957
NAC 3208	295/320 to 240/265	150	NAC 2958
NAC 3209	295/320 to 265/290	150	NAC 2959
NAC 3351	310/335 to 180/205	160	NAC 3101
NAC 3600	335/360 to 295/320	165	NAC 3350
NAC 3608	335/360 to 240/265	165	NAC 3358
NAC 3609	335/360 to 265/290	165	NAC 3359
NAC 3763	360/376 to 323/337	165	NAC 3604
NAC 3850	360/385 to 300/325	165	NAC 3603
NAC 3858	360/385 to 240/265	165	NAC 3601
NAC 3859	360/385 to 265/290	165	NAC 3602
NAC 4208	395/420 to 240/265	165	NAC 3958
NAC 4209	395/420 to 265/290	165	NAC 3959

Adaptors for structural walled plastic pipes

Coupling Ref.	Pipe 1 OD Pipe 2 OD (mm) (mm)	Width (mm)	Old Ref
NAR 1500	160/170 to 170/192	110	NACUR 150
NAR 2250	240/250 to 260/285	145	NACUR 225
NAR 3000	325/335 to 360/385	165	NACUR 300
316 Stainless S	teel bands are available	on all of t	he above

Typical Connections - Adaptor Couplings

Universal Adaptors



MDPE	280mm		180mm 200mm 200mm	
Drainago Adaptors				
Drainage Adaptors PVCu Cast Iron (soil & Drain) Cast Iron (smu/ensign/sml) Ductile Iron Supersleve	100mm 100mm	NAC 1221	82mm 75mm 75mm 70mm	(3") PVCu Cast Iron (soil & drain) Cast Iron (smu/ensign) Cast Iron (smu/ensign/sml)
PVCu Cast Iron (soil) Cast Iron (smu/ensign/smu) Stainless Steel	110mm 100mm 100mm 110mm	NAC 1226	50mm 50mm	(2") Cast Iron (soil & drain) Cast Iron (smu/ensign/smu)
PVCu Supersleve Cast Iron (soil & drain) Cast Iron (smu/ensign/sml) Ductile Iron Stainless Steel Asbestos Cement	100mm 100mm 100mm 100mm	NAC 5144	100mm	Ductile Iron Cast Iron (soil) Cast Iron (smu/ensign/sml) Stainless Steel PVCu
Supersleve Vitrified Clay Asbestos Cement Cast Iron (smu/ensign/sml)	100mm 100mm	NAC 1361	82mm 75mm 75mm 70mm	(3") PVCu Cast Iron (soil & drain) Cast Iron (smu/ensign) Cast Iron (smu/ensign/sml)
Supersleve Vitrified Clay Asbestos Cement Cast Iron (smu/ensign/sml)	100mm 100mm	NAC 1362	100mm	Cast Iron (soil) Cast Iron (smu/ensign/sml) Stainless Steel PVCu
PVCu Cast Iron (smu/ensign/sml) Stainless Steel		NAC 1602	100mm 100mm 100mm 100mm	(3") PVCu Cast Iron (soil & drain) Cast Iron (smu/ensign/sml) Ductile Iron Stainless Steel Supersleve
Vitrified Clay (Salt Glazed Ware) Supersleve Ultra-Rib Ductile Iron Cast Iron (drain) Asbestos Cement Pitch Fibre Twin Walled Plastic	150mm 150mm 150mm 150mm 150mm 150mm	NAC 1922	100mm 100mm 100mm	PVCu Cast Iron (soil & drain) Cast Iron (smu/ensign/sml) Ductile Iron Stainless Steel Supersleve
Vitrified Clay (Salt Glazed Ware) Supersleve Ultra-Rib Ductile Iron Cast Iron (drain) Asbestos Cement Pitch Fibre Twin Walled Plastic	150mm 150mm 150mm 150mm 150mm 150mm	NAC 1923	100mm 100mm	Supersleve Vitrified Clay Asbestos Cement Cast Iron (smu/ensign/sml)
Vitrified Clay (Salt Glazed Ware) Supersleve Ultra-Rib Ductile Iron Cast Iron (drain) Asbestos Cement Pitch Fibre Twin Walled Plastic	150mm 150mm 150mm 150mm 150mm 150mm	NAC 1924		PVCu Cast Iron (smu/ensign/sml) Stainless Steel

Pipe Couplings



Used in drainage systems to connect pipes where resistance to shear loads is not required.

Applications include:

- Repair of an existing drain by insertion of a new length of pipe
- Adaptor between pipes of different materials or manufacturers
- Jointing short lengths of pipe

Coupling Ref.	Min OD (mm)	Max OD (mm)	Width (mm)	Box Qty
NPC 115	100	115	100	20
NPC 125	110	125	100	20
NPC 135	120	135	120	20
NPC 150	135	150	150	20
NPC 165	150	165	150	10
NPC 175	160	175	120	10
NPC 185	170	185	120	10
NPC 195	180	195	120	10
NPC 215	200	215	150	8
NPC 225	210	225	150	6
NPC 250	235	250	150	6
NPC 275	260	275	150	6

Typical Connections - Pipe Couplings

туріса	.1 (-)	
NPC 115	110mm 100mm 100mm 100mm 100mm 100mm	PVCu Cast Iron (soil) Cast Iron (smu/ensign) Stainless Steel Corrugated Plastic ABS
NPC 125	100mm 100mm 100mm 100mm 100mm 100mm 100mm	Ductile Iron Grey Iron Asbestos Cement
NPC 135	100mm 100mm 100mm 100mm 100mm 100mm	Supersleve (4") Salt Glazed Ware Vitrified Clay Densleeve Pitch Fibre Asbestos Cement
NPC 165	160mm 150mm 150mm 160mm	(, , ,)
NPC 175	150mm 150mm 150mm 150mm 150mm 150mm	Ultra-Rib Quantum Ductile Iron Grey Iron Twinwall Plastic Corrugated Plastic
NPC 185	150mm 150mm 150mm 150mm 150mm	Supersleve Pitch Fibre Asbestos Cement Twinwall Plastic Corrugated Plastic
NPC 195	150mm 150mm 150mm 150mm 150mm 150mm	Supersleve (6") Salt Glazed Ware Vitrified Clay Asbestos Cement Pitch Fibre Densleeve

Plumbing Range

Used for connecting smaller diameter pipes. The couplings are designed for connecting pipes with a similar outside diameter and the adaptors for connecting pipes of differing outside diameters.

Couplings



Coupling Ref.	Min OD (mm)	Max OD (mm)	Width (mm)
NPC 32	24	32	70
NPC 40	32	40	70
NPC 50	40	50	70
NPC 65	50	65	90
NPC 85	70	85	100
NPC 95	80	95	100

Adaptors



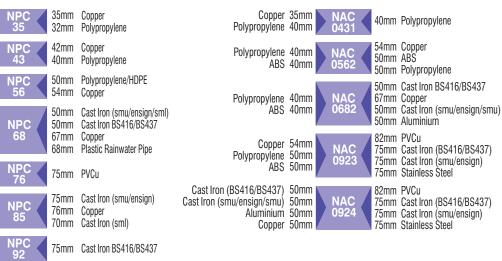


Coupling Ref.	Pipe 1 OD (mm)	Pipe 2 OD (mm)	Width (mm)
NAC 0301	32-40	24-32	65
NAC 0401	40-50	32-40	65
NAC 0501	50-65	35-42	60
NAC 0601	59-64	70-75	70
NAC 0751	75-90	40-50	100
NAC 0752	75-90	50-64	70

Typical Connections - New plumbing Range

Straight Couplings for Plumbing Applications





Note: The couplings also fit the imperial equivalent

End Caps

93mm Copper



A reusable and flexible, easy to fit cap for permanent or temporary applications such as air testing waste or soil systems, capping or preventing dirt ingress.

Product Ref.	Min-Max OD (mm)	Pipe DN	
NEC 45	45-55	38	
NEC 56	56-66	50	
NEC 80	80-90	75	
NEC 105	105-115	100	
NEC 155	155-165	150	
NEC 205	205-215	200	

How to select a coupling

Obtain the precise outside diameters of the pipes to be jointed. Guidance figures for a variety of material diameters are provided in the table below (NB these are not intended to be a substitute for site measurements). Check the range list to see which coupling reference has a range of sizes which the outside diameters of the pipes fall within. If this is

not successful, Bushes are available in a variety of sizes and thicknesses to allow the standard range of couplings to connect pipes which may have a considerable difference in their outside diameters. Adaptor Couplings allow differing outside diameters to be connected without the need to use Bushes.

TABLE INDICATING TYPICAL OUTSIDE PIPE DIAMETERS (for guidance only)

PIPE MATERIAL	40	50	75	100	125	150	175	Inte 180	rnal S 200	225	250					500 (mm		600	3	5		peria 9		e s 12	15	18
Vitrified Clay				131		188	220		245	278		374	465	484	522	607		730	98	156	238	268	295	356	445	533
Salt Glazed Clay												380		506	544	635		755								
Supersleve (thin walled clay)				122		178				263		357														
Concrete						200				286		375	457		580		675	770								
										305		425	464		540		690	785								
										292		386	485		552											
												410	520		570											
													506		590											
Asbestos L				125		182	208		232	260	288					547										
M												339	423	437	484	551										
Н												346	429	440	490	559										
PVC-U				110		160			200		250	315		406	457	508										
Ultra-Rib						170		200		250		335														
Quantum						160				250		330														
Rigidrain						177				264		351														
ABS	43	56		110		160	200		225		280	315							89	140	219		273	323		
Polyethylene				111	126	161		181	201	226	251	317		402	452	503										
Polypropylene/PE twin walled				119	150	180			235	260		360		455	490	590		690								
Corrugated PVC-u lightweight				110		170				250																
Polypropylene	41	54																								
	43																									
muPVC	54																									
Ductile Iron BS4772			98	118		170			223	258	274	326	403	429	480	532		635		148						
Cast Iron (SMU/Ensign)		60	85	112	137	162			212		279	329														
Cast Iron BS437 (Drain)		65	92	119		173				256									92							
Cast Iron BS416 (Soil)		63	89	114	140	165			210										89							
Cast Iron (Spun) BS1211 B																								334	413	492
C, D																								345	426	507
Copper		54	76	108															79.9							
Grey Iron				118		170			222		274	326		429	480	532		635								
Stainless Steel				110		160																				
Pitch Fibre			75	125		181			238																	
Aluminium		53	76	102																						