

Pipeline Repair Guide

January 2024

Various products for the quick & easy repairs of leaking or damaged pipes to keep the water flowing.



Applications

Repairs under pressure

Solutions for various forms of damage

Joining different types of pipe

Overcoming misaligned pipes

Pipe Sizing Chart

PRESSURE PIPES

Pipe Material	Std (AS)	Nominal Size (DN)																							
		80	90	100	125	150	175	200	225	250	300	350	375	400	450	500	525	550	575	600	675	700	750	800	900
oPVC Series 2	4441	-	-	122	-	177	-	232	259	286	345	-	426	-	507	560	-	-	-	667	-	-	-	-	-
mPVC Series 2	4765	-	-	122	-	177	-	232	259	286	345	-	426	-	507	560	-	-	-	667	-	-	-	-	-
uPVC Series 2	1477	-	-	122	-	177	-	232	259	286	345	-	426	-	507	560	-	-	-	667	-	-	-	-	-
GRP	3571	-	-	-	-	-	-	-	-	-	345	399	426	453	507	560	587	-	-	667	747	-	826	-	924
Ductile Iron	2280	96	-	122	-	177	-	232	259	286	345	-	426	-	507	560	-	-	-	667	-	-	826	-	-
Cast Iron CI B	1724	-	-	122	-	177	-	232	259	286	334	-	413	-	492	545	-	-	-	650	-	-	-	-	-
Cast Iron CI C	2544	96	-	122	149	177	203	232	259	286	345	-	426	-	507	560	-	-	-	667	-	-	826	-	-
AC Class CD	1711	96	-	122	-	177	-	232	259	286	345	-	426	-	507	-	587	-	-	667	747	-	826	-	-
AC Class AB	1711	96	-	122	-	177	-	232	259	286	334	-	413	-	492	-	572	-	-	650	-	-	-	-	-
mPVC Series 1	4765	-	-	114	140	160	200	225	250	280	315	-	400	-	500	560	-	-	630	-	-	-	-	-	-
uPVC Series 1	1477	89	-	114	140	160	200	225	250	280	315	355	400	450	500	560	-	-	630	-	-	-	-	-	-
Mild Steel	1579	-	-	114	-	168	-	219	-	273	324	356	-	406	457	508	-	-	-	610	-	711	762	813	914
SS Sch 10-160		89	102	114	141	168	-	219	-	273	324	356	-	406	457	508	-	559	-	610	-	-	762	-	-
Gal Steel	1074	89	102	114	140	168	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ABS Series 1	3518	89	-	114	140	168	-	225	250	-	315	355	400	450	500	560	-	-	630	-	-	-	-	-	-
SS Tube	1528	76	89	102	127	152	-	203	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	1432	76	89	102	127	152	-	203	229	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Reinf Concrete	4058	-	-	-	-	197	-	-	279	-	362		445		533		616	-	-	699	787	-	870	-	-
Poly PE80/100	4130	90	-	110	124	160	-	200	-	250	315	355	-	400	450	500	-	560	-	630	-	710	-	800	900
					140	180		225		280															
Ductile Iron ISO	EN545	98	-	118	144	170	-	222	-	274	326	378		429	480	532				635		738		842	945

R2M - CQuick Encapsulation Collars

CQuick encapsulation collars offer a quick, light and viable solution to making an under-pressure permanent repair of leaking AC collars, CI/DI socket spigot and any other leak which falls within the OD tolerance.

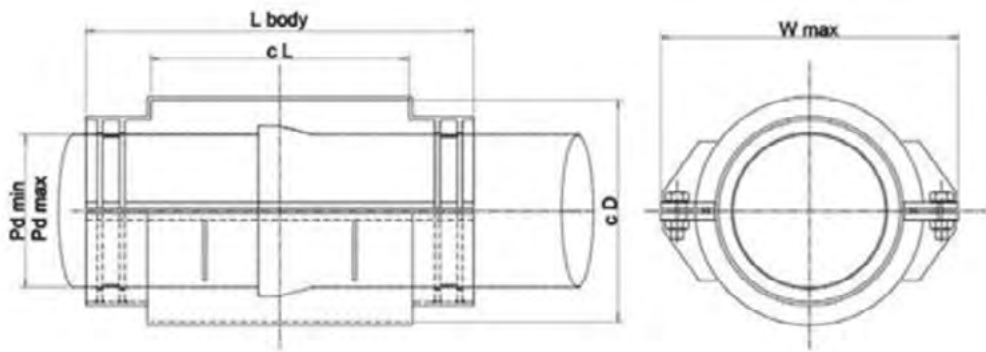
Applications

- Repairs of pipelines under pressure
- Leaking AC Collars, socket/ring joint connections
- Failed EF Couplers
- Leaking gibaults, flanges or repair clamps
- Longitudinal or circumferential cracks



TABLE 1 Cquick

Item	Description
CQUICK-COL-100	Cquick Repair & Encapsulation Collar 100mm (112-130)
CQUICK-COL-150	Cquick Repair & Encapsulation Collar 150mm (166-183)
CQUICK-COL-200	Cquick Repair & Encapsulation Collar 200mm (216-234)
CQUICK-COL-250	Cquick Repair & Encapsulation Collar 200mm (273-291)
CQUICK-COL-300	Cquick Repair & Encapsulation Collar 300mm (323-340)
CQUICK-COL-300+	Cquick Repair & Encapsulation Collar +300mm (340-358)
CQUICK-COL-80	Cquick Repair & Encapsulation Collar 80mm (83-100)



Nova Siria – DuoFit Encapsulation Collars

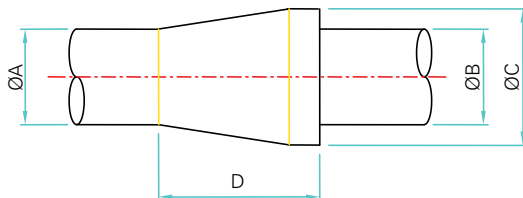
Split-body encapsulation collars for the repair of critical water supply pipelines under pressure. Eliminating the need to 'shut down', enables quick and easy response with little disruption to the public.

Applications

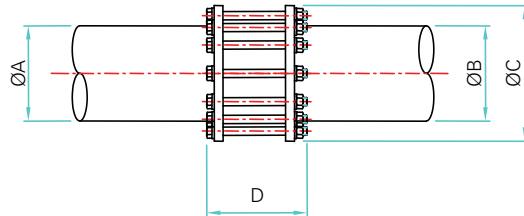
- Repairs of pipelines under pressure
- Leaking AC Collars, socket/ring joint connections
- Failed EF Couplers
- Leaking gibaults, flanges or repair clamps
- Longitudinal or circumferential cracks
- Fully customizable to any situation



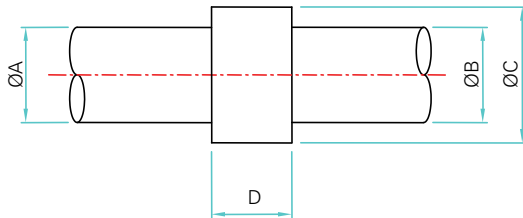
1) Socket to be encapsulated:



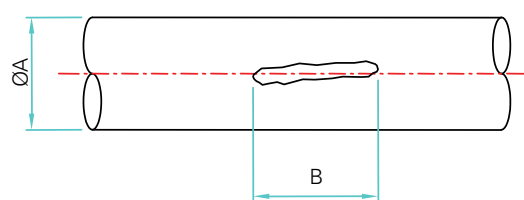
3) Coupling to be encapsulated:



2) Object or clamp to be encapsulated:



4) Plain pipe with crack or hole:



Coupler

Range of universal pipe couplings represents the very latest in mechanical pipe coupling technology.

Applications

- Pressure and Non Pressure pipelines
- Non-restraint couplers
- Suitable for use with AC, PVC, DI/CI, Steel & Concrete
- For use in pairs when the pipe repair requires the broken pipe to be cut out and replaced

Code	Description/Range OD	Length	Suitable for use on:					
			Steel	AC	DI/CI	S2 PVC	S1 PVC	PE
GIBMF100NP	DN100 (107mm-132mm)	190mm	✓	✓	✓	✓	✓	
GIBMF100L	DN100 (107mm-132mm) Long Sleeve	285mm	✓	✓	✓	✓	✓	
GIBMF125NP	DN125 (132mm-158mm)	190mm	✓				✓	
GIBMF125L	DN125 (132mm-158mm) Long Sleeve	190mm	✓				✓	
GIBMF150NP	DN150 (158mm-184mm)	190mm	✓	✓	✓	✓	✓	
GIBMF150L	DN150 (158mm-184mm) Long Sleeve	285mm	✓	✓	✓	✓	✓	
GIBMF175N	DN175 (189mm-212mm)	230mm					✓	
GIBMF175L	DN175 (189mm-212mm) Long Sleeve	285mm					✓	
GIBMF200N	DN200 (218mm-244mm)	230mm	✓	✓	✓	✓	✓	
GIBMF200L	DN200 (218mm-244mm) Long Sleeve	285mm	✓	✓	✓	✓	✓	
GIBMF225N	DN225 (243mm-269mm)	230mm	✓	✓	✓	✓	✓	
GIBMF225L	DN225 (243mm-269mm) Long Sleeve	285mm	✓	✓	✓	✓	✓	
GIBMF250N	DN250 (266mm-295mm)	230mm	✓	✓	✓	✓	✓	
GIBMF250L	DN250 (266mm-295mm) Long Sleeve	350mm	✓	✓	✓	✓	✓	
GIBMF300N	DN300 (315mm-349mm)	230mm	✓	✓	✓	✓	✓	
GIBMF300L	DN300 (315mm-349mm) Long Sleeve	350mm	✓	✓	✓	✓	✓	
GIBMFP350	DN350 (351mm-368mm)	348mm	✓				✓	
GIBMFA350	DN350 (374.5mm-391.5)	348mm						
GIBMFP375	DN375 (394.3mm-411.3mm)	348mm	✓				✓	
GIBMFA375	DN375 (418.2mm-435.2mm)	348mm	✓	✓	✓	✓		
GIBMF400N	DN400 (434mm-451mm)	348mm					✓	
GIBMF450N	DN450 (447mm-464mm)	348mm	✓				✓	
GIBMF450B	DN450 (467mm-484mm)	348mm						
GIBMFA450	DN450 (476mm-493mm)	348mm						
GIBMFP450N	DN450 (492mm-509mm)	348mm	✓	✓	✓	✓	✓	
GIBMFP450	DN450 (501.9mm-518.9mm)	348mm	✓	✓	✓	✓		
GIBMFA500	DN500 (527mm-545mm)	348mm						
GIBMFP500	DN500 (555.3mm-572mm)	348mm	✓		✓	✓	✓	
GIBMF500C	DN500 (565mm-582mm)	348mm	✓	✓				
GIBMF500	DN500 (582.2mm-599.2mm)	348mm		✓				
GIBMF600A	DN600 (601mm-618mm)	348mm	✓					
GIBMF600B	DN600 (613mm-630mm)	348mm					✓	
GIBMF600D	DN600 (630mm-647mm)	348mm					✓	
GIBMF600E	DN600 (654mm-671mm)	348mm	✓	✓	✓	✓		
GIBMFA600	DN600 (662mm-679mm)	348mm	✓	✓	✓	✓		
GIBMF600G	DN600 (675mm-692mm)	348mm						
GIBMF600H	DN600 (689mm-706mm)	348mm						
GIBMF600I	DN600 (695mm-712mm)	348mm	✓					

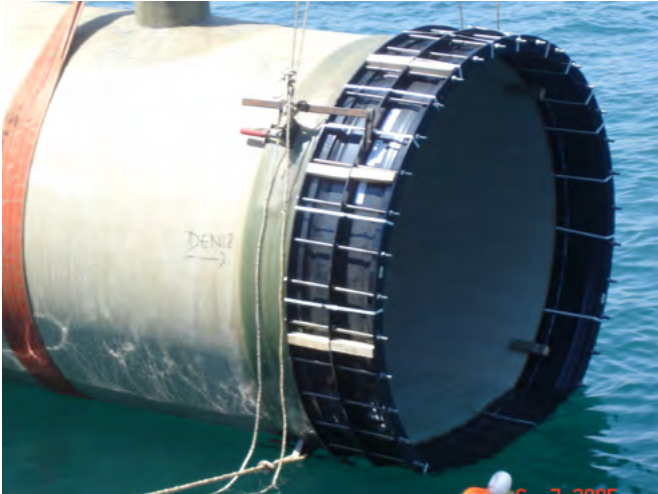
Applications

- Used to overcome large differences in the Pipe outside diameter
- Connecting Series 1 to Series 2 pipes



TABLE 5 Stepped Couplers

Code	Description/Range OD	Length	Suitable for use on:					
			Steel	AC	DI/CI	S2 PVC	S1 PVC	PE
GIBMFS100125N	DN100-125 (107-132mm) to (132-158mm)	220mm	✓	✓	✓	✓	✓	
GIBMFS125150N	DN125-150 (132-158mm) to (158-184mm)	220mm	✓	✓	✓	✓	✓	
GIBMFS150175N	DN150-175 (158-184mm) to (189-212mm)	230mm	✓	✓	✓	✓	✓	
GIBMFS175200N	DN175-200 (189-212mm) to (218-244mm)	230mm	✓	✓	✓	✓	✓	
GIBMFS200225N	DN200-225 (218-244mm) to (243-269mm)	230mm	✓	✓	✓	✓	✓	
GIBMFS225250N	DN225-250 (243-269mm) to (266-295mm)	230mm	✓	✓	✓	✓	✓	
GIBMFS375	DN375-375 (394.3mm-411.3mm) to (418.2-435.2)	410mm	✓	✓	✓	✓	✓	



Hawle - System 2000 PE Pipe Couplers

Total restraint for PE (PE 80/100) and PVC pipes up to PN 16.

Applications

- System 2000 is a dedicated PE pipe connection system, also suitable for metric PVC pipes where the ODs match
- Full thrust restraint without the need for support liners on SDR11 through to SDR17
- Ideal for temporary and permanent installations
- No torque wrench required
- Fully reusable

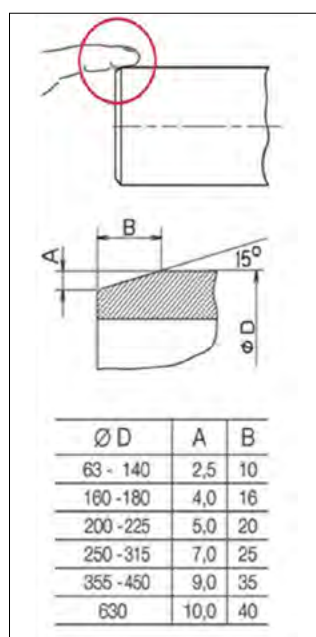


TABLE 6 Hawle - System 2000 Connector Socket

Code	Description/Range OD	Length	Suitable for use on:					
			Steel	AC	DI/CI	S2 PVC	S1 PVC	PE
VMM0000300006	Connector System 2000 63mm Soc/Soc PN16	61mm						✓
VMM0000370006	Connector System 2000 75mm Soc/Soc PN16	75mm						✓
VMM0000390006	Connector System 2000 90mm Soc/Soc PN16	90mm					✓	✓
VMM0000420006	Connector System 2000 110mm Soc/Soc PN16	110mm					✓	✓
VMM0000440006	Connector System 2000 125mm Soc/Soc PN16	125mm						✓
VMM0000490006	Connector System 2000 160mm Soc/Soc PN16	160mm					✓	✓
VMM0000500006	Connector System 2000 180mm Soc/Soc PN16	180mm					✓	✓
VMM0000550006	Connector System 2000 200mm Soc/Soc PN16	200mm					✓	✓
VMM0000560006	Connector System 2000 225mm Soc/Soc PN16	225mm					✓	✓
VMM0000620006	Connector System 2000 250mm Soc/Soc PN16	250mm					✓	✓
VMM0000630006	Connector System 2000 280mm Soc/Soc PN16	280mm					✓	✓
VMM0000670006	Connector System 2000 315mm Soc/Soc PN16	315mm					✓	✓
VMM0000730006	Connector System 2000 355mm Soc/Soc PN16	355mm					✓	✓

Hawle - Synoflex Couplers

An easy to install quality range of restraint couplings from Hawle. Wide tolerance range to accept most pipe materials with separate torque zones, reversible stainless steel captive fasteners and full end restraint.

Applications

- The Synoflex range connects all common types of pipe
This includes CI/DI, Steel, PE, and PVC
- Fully restrained and provides a simple transition joint when connecting PE to PE and other existing pipes
- 8 degrees of angular deflection per coupler
- When used on HDPE pipe from SDR17 rating and lower, internal support liners are not required
- Reversible bolts for tight spaces



TABLE 8 Hawle Synoflex couplers

Code	Description/Range OD	Length	Suitable for use on:					
			Steel	AC	DI/CI	S2 PVC	S1 PVC	PE
VMJ000027	Synoflex Coupling DN 40mm (46-58mm OD) PN16	40mm	✓	*	✓	✓	✓	✓
VMJ000030	Synoflex Coupling DN 50mm (56-71mm OD) PN16	50mm	✓	*	✓	✓	✓	✓
VMJ000037	Synoflex Coupling DN 65mm (71-88mm OD) PN16	65mm	✓	*	✓	✓	✓	✓
VMJ000039	Synoflex Coupling DN 80mm (85-105mm OD) PN16	80mm	✓	*	✓	✓	✓	✓
VMJ000044	Synoflex Coupling DN 100mm (104-132mm OD) PN16	100mm	✓	*	✓	✓	✓	✓
VMJ000047	Synoflex Coupling DN 125mm (131-160mm OD) PN16	125mm	✓	*	✓	✓	✓	✓
VMJ000049	Synoflex Coupling DN 150mm (155-192mm OD) PN16	150mm	✓	*	✓	✓	✓	✓
VMJ000056	Synoflex Coupling DN 200mm (198-230mm OD) PN16	200mm	✓	*	✓	✓	✓	✓
VMJ000061	Synoflex Coupling DN 225mm (230-260mm OD) PN16	225mm	✓	*	✓	✓	✓	✓
VMJ000063	Synoflex Coupling DN 250mm (265-310mm OD) PN16	250mm	✓	*	✓	✓	✓	✓
VMJ000067	Synoflex Coupling DN 300mm (313-356mm OD) PN16	300mm	✓	*	✓	✓	✓	✓
VMJ000073	Synoflex Coupling DN 350mm (352-396mm OD) PN10	350mm	✓	*	✓	✓	✓	✓
VMJ000076	Synoflex Coupling DN 400mm (398-442mm OD) PN10	400mm	✓	*	✓	✓	✓	✓

**Due to the physical nature of AC pipes, a fully restrained connection cannot be guaranteed*



TABLE 9 Hawle Synoflex Step Couplers

Code	Description/Range OD	Length	Suitable for use on:					
			Steel	AC	DI/CI	S2 PVC	S1 PVC	PE
VMJ00003937	Synoflex Step Coup 80mm (85-105) x 65 (71-88)	80mm	✓	*	✓	✓	✓	✓
VMJ00004439	Synoflex Step Coup 100mm (104-132) x 80 (85-105)	100mm	✓	*	✓	✓	✓	✓
VMJ00004944	Synoflex Step Coup 150mm (155-192) x 100 (104-132)	150mm	✓	*	✓	✓	✓	✓
VMJ00006156	Synoflex Step Coup 225mm (230-260) x 200 (198-230)	225mm	✓	*	✓	✓	✓	✓
VMJ00006356	Synoflex Step Coup 250mm (265-310) x 200 (198-230)	250mm	✓	*	✓	✓	✓	✓
VMJ000063610	Synoflex Step Coup 250mm (265-310) x 225 (230-260)	250mm	✓	*	✓	✓	✓	✓
VMJ000067630H	Synoflex Step Coup 300mm (313-356) x 250 (265-310)	300mm	✓	*	✓	✓	✓	✓

**Due to the physical nature of AC pipes, a fully restrained connection cannot be guaranteed*

TABLE 10 Hawle Synoflex End Cap

Code	Description/Range OD	Length	Suitable for use on:					
			Steel	AC	DI/CI	S2 PVC	S1 PVC	PE
VHDA0003930	Synoflex End Cap DN 80mm (85-105mm OD) 2 BSP	80mm	✓	*	✓	✓	✓	✓
VHDA0004430	Synoflex End Cap DN 100mm (104-132mm OD) 2 BSP	100mm	✓	*	✓	✓	✓	✓
VHDA0004930	Synoflex End Cap DN 150mm (155-192mm OD) 2 BSP	150mm	✓	*	✓	✓	✓	✓
VHDA0005630	Synoflex End Cap DN 200mm (198-230mm OD) 2 BSP	225mm	✓	*	✓	✓	✓	✓
VHDA0008055	Synoflex End Cap DN 225mm (230-260mm OD) 2 BSP	250mm	✓	*	✓	✓	✓	✓
VHDA0008058	Synoflex End Cap DN 250mm (265-310mm OD) 2 BSP	250mm	✓	*	✓	✓	✓	✓
VHDA0008061	Synoflex End Cap DN 300mm (313-356mm OD) 2 BSP	300mm	✓	*	✓	✓	✓	✓

**Due to the physical nature of AC pipes, a fully restrained connection cannot be guaranteed*

TABLE 11 Hawle Synoflex Flange Adaptor

Code	Description/Range OD	Length	Suitable for use on:					
			Steel	AC	DI/CI	S2 PVC	S1 PVC	PE
VEMD00030	Synoflex Flange Adaptor DN 50mm (56-71mm OD) PN16	50mm	✓	*	✓	✓	✓	✓
VEMD00037	Synoflex Flange Adaptor DN 65mm (71-88mm OD) PN16	65mm	✓	*	✓	✓	✓	✓
VEMD00039	Synoflex Flange Adaptor DN 80mm (85-105mm OD) PN16	80mm	✓	*	✓	✓	✓	✓
VEMD00044	Synoflex Flange Adapt DN 100mm (104-132mm OD) PN16	100mm	✓	*	✓	✓	✓	✓
VEMD00047	Synoflex Flange Adapt DN 125mm (131-160mm OD) PN16	125mm	✓	*	✓	✓	✓	✓
VEMD00049	Synoflex Flange Adapt DN 150mm (155-192mm OD) PN16	150mm	✓	*	✓	✓	✓	✓
VEMD00056	Synoflex Flange Adapt DN 200mm (198-230mm OD) PN16	200mm	✓	*	✓	✓	✓	✓
VEMD00063	Synoflex Flange Adapt DN 250mm (265-310mm OD) PN16	250mm	✓	*	✓	✓	✓	✓
VEMD00067	Synoflex Flange Adapt DN 300mm (313-356mm OD) PN16	300mm	✓	*	✓	✓	✓	✓
VEMD00073	Synoflex Flange Adapt DN 350mm (352-396mm OD) PN10	350mm	✓	*	✓	✓	✓	✓
VEMD00076	Synoflex Flange Adapt DN 400mm (398-442mm OD) PN10	400mm	✓	*	✓	✓	✓	✓

**Due to the physical nature of AC pipes, a fully restrained connection cannot be guaranteed*

TABLE 12 Hawle Synoflex Step Flange Adaptor

Code	Description/Range OD	Length	Suitable for use on:					
			Steel	AC	DI/CI	S2 PVC	S1 PVC	PE
VEMD0003937	Synoflex Flange Adap Step DN65 (71-88) x 80 Flange	65mm	✓	*	✓	✓	✓	✓
VEMD0003944	Synoflex Flange Adap Step DN100 (104-132) x 80 FI	100mm	✓	*	✓	✓	✓	✓
VEMD0004439	Synoflex Flange Adap Step DN80 (85-105) x 100 FI	80mm	✓	*	✓	✓	✓	✓
VEMD0004447	Synoflex Flange Adap Step DN125 (131-160) x 100 FI	125mm	✓	*	✓	✓	✓	✓
VEMD0004947	Synoflex Flange Adap Step DN125 (131-160) x 150 FI	125mm	✓	*	✓	✓	✓	✓
VEMD0004956	Synoflex Flange Adap Step DN200 (198-230) x 150 FI	200mm	✓	*	✓	✓	✓	✓
VEMD0005661	Synoflex Flange Adap Step DN225 (230-260) x 200 FI	225mm	✓	*	✓	✓	✓	✓

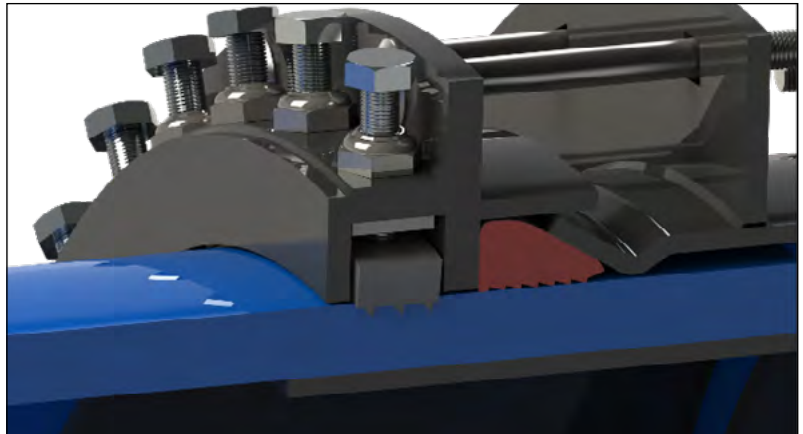
**Due to the physical nature of AC pipes, a fully restrained connection cannot be guaranteed*

Nova Siria - MultiGrip Couplers

Large bore, wide tolerance, fully restrained couplers. MultiGrip allows for the easy connection of multiple pipe materials in all weather conditions.

Applications

- The MultiGrip range connects all common types of pipe. This includes HDPE, PVC, Steel, AC*, Cast & Ductile Iron
- Fully restrained and provides a simple transition joint when connecting PE to PE and other existing pipes.
- Large 30mm of grip range helps to overcome out-of-round pipes.
- 6° of angular deflection per coupler, makes connecting mis-aligned pipes in the trench easy
- Jointing solution when welding HDPE is impractical or not possible.
- PN16 up to D1500mm
- PN25 up to D1500mm
- Larger sizes, stepped couplers and custom versions on request.



Haku Pipe Saddle with Threaded BSP Outlet

HAKU saddles provide the best method for sealing off takes and outlets on metric PE and PVC pressure watermain pipe.

The HAKU seal is in full contact with the entire diameter of the PE pipe and is glued onto the saddle for ease of assembly. In addition several concentric seals with increasing diameter surround the outlet thus relieving the pressure upon the drill hole and protecting it from deformation.

Watermark appraised



Material

- Ø40: EN-GJL-250 (GG 250) to EN 1561, epoxy powder coated
- Ø50 - 500: EN-GJS-400-15/18 (GGG 400) to EN 1563 epoxy powder coated
- Rubber seals: Elastomer, suitable for potable water
- Bolts and washers: Stainless steel – A4

TABLE 13

Pipe Ø mm	Internal threaded outlet			
	1"	1¼"	1½"	2"
40	•			
50	•			
63	•	•	•	•
75	•	•	•	•
90	•	•	•	•
110	•	•	•	•
125	•	•	•	•
140	•	•	•	•
160	•	•	•	•
180	•	•	•	•
200	•	•	•	•
225	•	•	•	•
250	•	•	•	•
280				•
280*	•	•	•	•
315				•
315*		•	•	•
355				•
400*			•	•
450*			•	•
500*			•	•

Note: *supplied as saddle piece with strap.

Caution: When being used on PE pipes, this type is suitable on class SDR 11 and higher lower SDR ratings, only



FIG. 1



FIG. 2



FIG. 3

TABLE 14 Hawle Haku Pipe Saddle with threaded 1" BSP Outlet

Code	Description/Range OD	Length	Suitable for use on:					
			Steel	AC	DI/CI	S2 PVC	S1 PVC	PE
VDB00002316	Haku Tapping Saddle 40 PE x 25mm BSP	25mm						✓
VDB00002716	Haku Tapping Saddle 50 PE x 25mm BSP	25mm						✓
VDB00013016	Haku Tapping Saddle 63 PE x 25mm BSP	25mm						✓
VDB00003916	Haku Tapping Saddle 90 PE x 25mm BSP	25mm						✓
VDB00004216	Haku Tapping Saddle 110 PE x 25mm BSP	25mm					✓	✓
VDB00004416	Haku Tapping Saddle 125 PE x 25mm BSP	25mm						✓
VDB30004916	Haku Tapping Saddle 160 PE x 25mm BSP	25mm					✓	✓
VDB30005016	Haku Tapping Saddle 180 PE x 25mm BSP	25mm						✓
VDB000062160	Haku Tapping Saddle 250 PE x 25mm BSP	25mm						✓

TABLE 15 Hawle Haku Pipe Saddle with threaded 2" BSP Outlet

Code	Description/Range OD	Length	Suitable for use on:					
			Steel	AC	DI/CI	S2 PVC	S1 PVC	PE
VDB000130	Haku Tapping Saddle 63 PE x 50mm BSP	50mm						✓
VDB00013730	Haku Tapping Saddle 75 PE x 50mm BSP	50mm						✓
VDB00003930	Haku Tapping Saddle 90 PE x 50mm BSP	50mm						✓
VDB00004230	Haku Tapping Saddle 110 PE x 50mm BSP	50mm					✓	✓
VDB00004430	Haku Tapping Saddle 125 PE x 50mm BSP	50mm						✓
VDB30004730	Haku Tapping Saddle 140 PE x 50mm BSP	50mm						✓
VDB30004930	Haku Tapping Saddle 160 PE x 50mm BSP	50mm					✓	✓
VDB30005030	Haku Tapping Saddle 180 PE x 50mm BSP	50mm						✓
VDB30005530	Haku Tapping Saddle 200 PE x 50mm BSP	50mm						✓
VDB30005630	Haku Tapping Saddle 225 PE x 50mm BSP	50mm						✓
VDB00006230	Haku Tapping Saddle 250 PE x 50mm BSP	50mm						✓
VDB00006330	Haku Tapping Saddle 280 PE x 50mm BSP	50mm						✓
VDB00006730	Haku Tapping Saddle 315 PE x 50mm BSP	50mm						✓

TABLE 16 Hawle Haku Pipe Saddle with threaded 2" BSP Outlet Strap Style

Code	Description/Range OD	Length	Suitable for use on:					
			Steel	AC	DI/CI	S2 PVC	S1 PVC	PE
VDB0000623010	Haku Tapping Saddle 250 PE BSP Strap Style	50mm						✓
VDB0000633010	Haku Tapping Saddle 280 PE BSP Strap Style	50mm						✓
VDB0000673010	Haku Tapping Saddle 315 PE BSP Strap Style	50mm						✓
VDB0000733010	Haku Tapping Saddle 355 PE x BSP Strap Style	50mm						✓
VDB0000763010	Haku Tapping Saddle 400 PE x BSP Strap Style	50mm						✓
VDB0000803010	Haku Tapping Saddle 450 PE x Strap Style	50mm						✓
VDB0000823010	Haku Tapping Saddle 500 PE x Strap Style	50mm						✓
VDB0000843010	Haku Tapping Saddle 630 PE x 50mm BSP Strap Style	50mm						✓

TABLE 17 Hawle Haku Pipe Saddle Flanged

Code	Description/Range OD	Length	Suitable for use on:					
			Steel	AC	DI/CI	S2 PVC	S1 PVC	PE
VDE01004239-TD	Haku Pipe Saddle 110 PE x DN 80mm FI AS4087 PN16	80mm						✓
VDE01004439-TD	Haku Pipe Saddle 125 PE x DN 80mm FI AS4087 PN16	80mm						✓
VDE010044	Haku Pipe Saddle 125 PE x DN 100mm FI AS4087 PN16	100mm						✓
VDE01004944-TD	Haku Pipe Saddle 160 PE x DN 100mm FI AS4087 PN16	100mm						✓
VDE01005039-TD	Haku Pipe Saddle 180 PE x DN 80mm FI AS4087 PN16	80mm						✓
VDE01005044-TD	Haku Pipe Saddle 180 PE x DN 100mm FI AS4087 PN16	100mm						✓
VDE01005539-TD	Haku Pipe Saddle 200 PE x DN 80mm FI AS4087 PN16	80mm						✓
VDE01005544-TD	Haku Pipe Saddle 200 PE x DN 100mm FI AS4087 PN16	100mm						✓
VDE01005639-TD	Haku Pipe Saddle 225 PE x DN 80mm FI AS4087 PN16	80mm						✓
VDE01005644-TD	Haku Pipe Saddle 225 PE x DN 100mm FI AS4087 PN16	100mm						✓
VDE01006239-TD	Haku Pipe Saddle 250 PE x DN 80mm FI AS4087 PN16	80mm						✓
VDE01006244	Haku Pipe Saddle 250 PE x DN 100mm FI AS4087 PN16	100mm						✓
VDE01006249	Haku Pipe Saddle 250 PE x DN 150mm FI AS4087 PN16	150mm						✓
VDE01006259-TD	Haku Pipe Saddle 280 PE x DN 100mm FI AS4087 PN16	100mm						✓
VDE01006349-TD	Haku Pipe Saddle 280 PE x DN 150mm FI AS4087 PN16	150mm						✓
VDE01006739-TD	Haku Pipe Saddle 315 PE x DN 80mm FI AS4087 PN16	80mm						✓
VDE01006749-TD	Haku Pipe Saddle 315 PE x DN 150mm FI AS4087 PN16	150mm						✓
VDE01007349-TD	Haku Pipe Saddle 355 PE x DN 150mm FI AS4087 PN16	150mm						✓
VDE01008049-TD	Haku Pipe Saddle 450 PE x DN 150mm FI AS4087 PN16	150mm						✓
VDE01008249-TD	Haku Pipe Saddle 500 PE x DN 150mm FI AS4087 PN16	150mm						✓
VDE01008449-TD	Haku Pipe Saddle 630 PE x DN 150mm FI AS4087 PN16	150mm						✓

*Due to the physical nature of AC pipes, a fully restrained connection cannot be guaranteed

Haku Pipe Saddle with Flanged Outlets

For metric PE and PVC pressure watermain pipelines.

Watermark appraised



Features

- Solid construction of ductile, iron epoxy powder coated
- Bolts, nuts and washers of stainless steel
- The drilled hole is sealed by an 'O' ring inserted in the upper part of saddle (Ø630, 2 'O' rings)
- The rubber linings are bonded to the lower part of saddle – this ensures positive positioning of saddle (only Ø110-315)

Material

- Saddle body:
 - Ductile iron EN-GJS-400-18 according to EN 1563 (GGG 400 – DIN 1693)
 - Epoxy powder coated
- Rubber-in the lower part:
 - Elastomer
- 'O' ring seal-in the bonnet:
 - Elastomer, (suitable for potable water)
- Bolts, Nuts and Washers:
 - Stainless steel – A2
- Nuts:
 - Molybdenum coated



FIG. 4

TABLE 18

Flange Size	Dimensions											
	110	140	160	180	200	225	250	280	315	355	450	630
80	.	.	.	.	.	.	.	.	.	.	.	.
100	.	.	.	.	.	.	.	.	.	.	.	.
150	.	.	.	.	.	.	.	.	.	.	.	.



Hawle - Vario Telescopic Pipe Spools for Pipe Misalignment

A flanged telescopic fitting with integral ball and socket joint that allows for adjustable length and installation deflection up to 10 degrees.

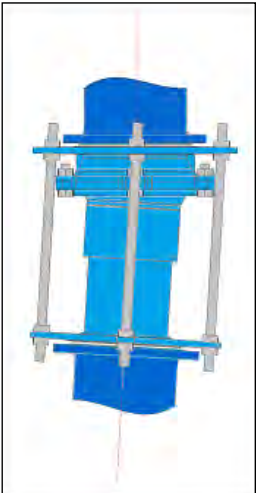
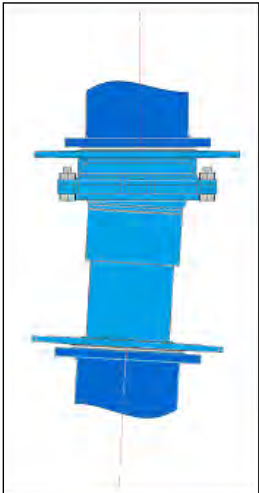
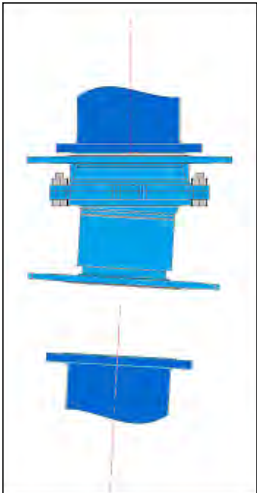
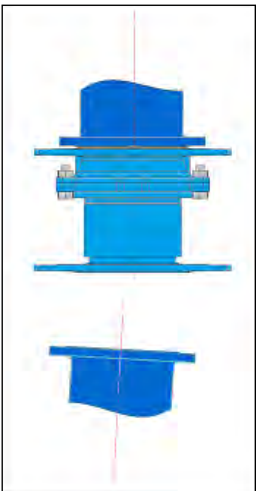
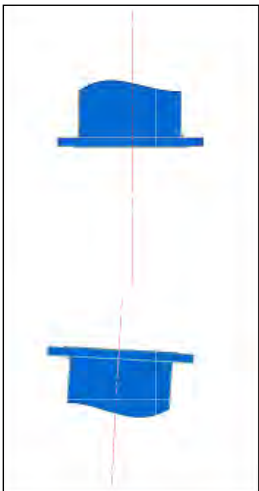
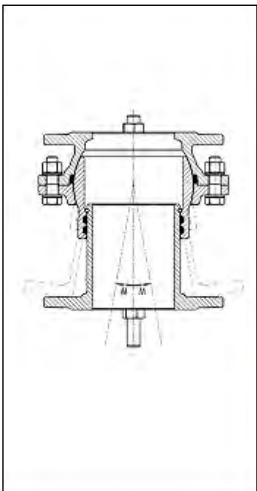
Applications

- The Vario is a telescopic pipe spools with a ball & socket joint allowing up to 10 degrees angular deflection
- When locked in place with it's tie-rods, the vario becomes a rigid & restrained part of the pipework
- Used to overcome issues of pipe misalignment and gaps between flanges



TABLE 20 Vario

Item	Description/Range OD
VMFV00044002S-TD	Vario Short DN100 Range 150mm - 216mm x 10deg PN16
VMFV00044003S-TD	Vario Long DN100 Range 216mm - 350mm x 10deg PN16
VMFV00049002S-TD	Vario Short DN100 Range 175mm - 216mm x 10deg PN16
VMFV00049003S-TD	Vario Long DN100 Range 250mm - 216mm x 10deg PN16
VMFV00056002S-TD	Vario Short DN100 Range 195mm - 216mm x 10deg PN16
VMFV00056003S-TD	Vario Long DN100 Range 280mm - 462mm x 8deg PN16





Scan for more
information

Disclaimer: While every effort has been made to ensure that the information in this document is correct and accurate, users of Hygrade Water product or information within this document must make their own assessment of suitability for their particular application. Product dimensions are nominal only, and should be verified if critical to a particular installation. No warranty is either expressed, implied, or statutory made by Hygrade Water unless expressly stated in any sale and purchase agreement entered into between Hygrade Water and the user.

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