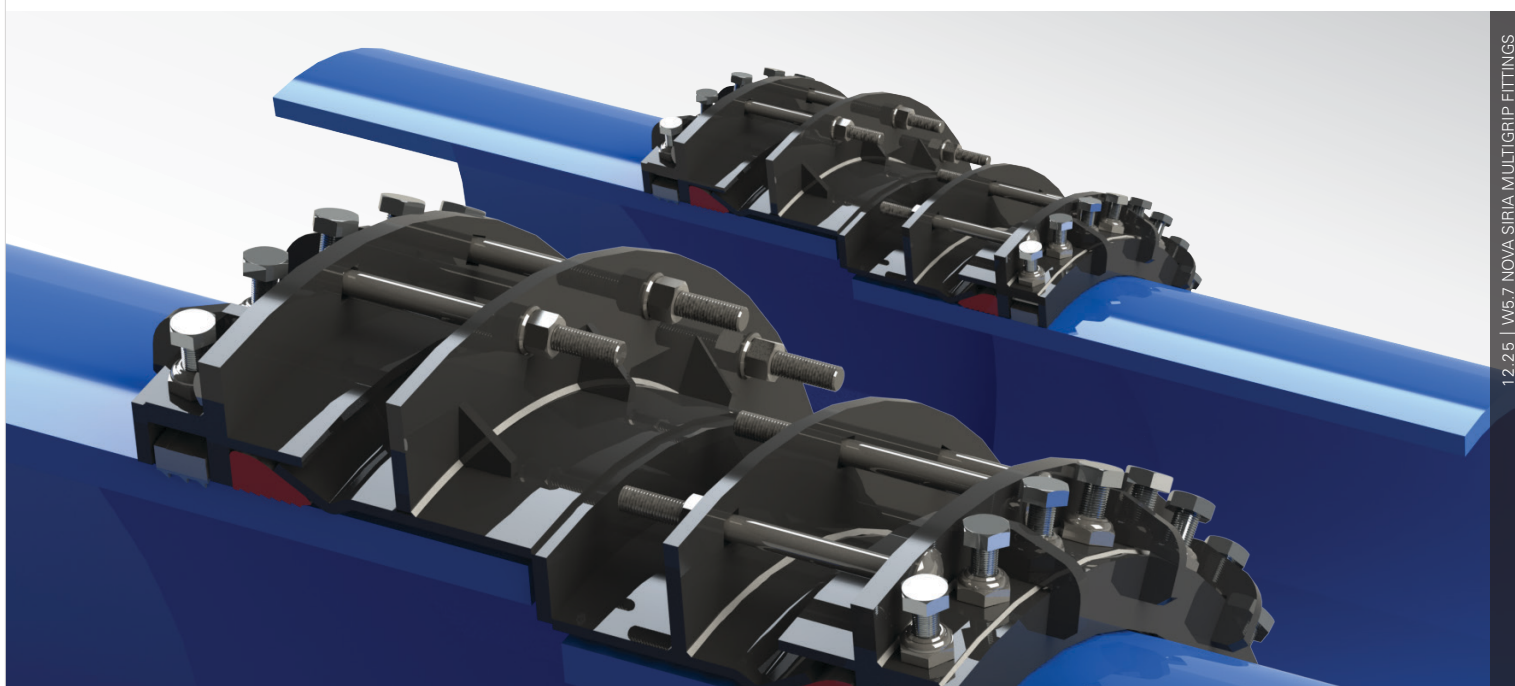


Large Diameter Multigrip Fittings

Technical Guide W5.7

Nova Siria Multigrip fittings are fabricated to suit a large range of pipe diameters. Full pressure ratings are available even in large sizes.



12.25 | W5.7 NOVA SIRIA MULTIGRIP FITTINGS

Applications

Suitable for pipelines carrying potable water, waste water, stormwater.

Irrigation pipelines

Suitable for marine applications

Product Attributes

Available as a coupler, flange adaptor, or stepped coupler

Wide 30mm OD tolerance

Rilsan Nylon 11 coated

Full restraint in the pipeline

Approvals/Standards

Flanges drilled to AS4087 Fig. B5

Quality

ISO9001: 2015 Quality Management Systems

We are the supply partner of choice for New Zealand's civil construction industry, specialising in water and infrastructure based solutions.

HYNDswater

Nova Siria Multigrip fittings are fabricated to suit a large range of pipe diameters. They provide a wide tolerance restraint fitting for most pipe materials including PE.

Applications

- The Nova Siria Multigrip product is used as a problem solver for many applications:
- Joining PE to PE, specialists in larger sizes
- Connecting PE to other pipe materials
- Overcoming joint difficulties due to tolerance issues on pipe
- Steps up or down between different nominal bores in a pipeline

Features

- 30 mm tolerance on OD of pipe
- Sealing gaskets and end restraint grippers are independent
- Rilsan Nylon 11 coated for corrosion protection and suitability with potable water
- Available as a coupler, flange adaptor, or stepped coupler
- Specialists in large restraint couplers, from 315 mm - 1200 mm +
- Support liners also manufactured by Nova Siria and should be used with PE pipe
- Suitable for transitions between different pipe materials and sizes
- PN10 and PN16 rated grippers
- Single or separate bolts
- Usable on HDPE, steel and ductile iron with outside diameter greater than 288 mm
- Grippers are universal – the same fitting can be used on HDPE, steel, and DI
- End restraint grippers are separate and independent from the sealing rings
- All bespoke couplers, flange adaptors and specials can be manufactured with Multigrip grippers
- No need for heating blankets or re-rounding tools or any other specialist equipment, merely a torque wrench
- Multigrip diameter range is from 288 mm to over 1000 mm for all types
- 16 bar rated working pressure up till 710 mm nominal bore (24 bar test). 10 bar for 800mm and over

Materials

- Body and compression flange: S235JR steel
- Bolts, nuts, washers: zinc coated steel or grade 316 SS
- Sealing rings: EPDM or NBR
- End restraint grippers: tempered steel with dacromet coating or alternative martensitic stainless steel grippers
- Anticorrosion coating: Rilsan Nylon 11

The pipe locking end restraint system with radial grippers provides a mechanical axial restraint of pipes which need to be connected:

- It is suitable for polyethylene, PVC, steel and cast/ductile iron pipes
- Provides restraints which are separate and independent from hydraulic seal
- Guarantees perfect mechanical restraint for all the tolerance range of the fitting
- The pipe-locking system provides a fast and inexpensive connection of pipes with any diameter even in special operating conditions

Our wide-range steel couplings are designed and tailor-made on demand and are suitable for pipes of any material:

- Straight couplings: connection of pipes having the same or different outside diameters or diameters which are included in coupling's tolerance range
- Reduced / stepped couplings: connection of pipes with very different outside diameters
- Endcaps: end of line interruptions or pipe maintenance
- Flange adaptors: connection with flanged components (valves, fittings, etc.)

Installation Guide

1. Check that the outside diameter of the pipes lie within the range written on the coupling's label*.
2. Partially unscrew the gripper bolts.
 - The gripper bolts must not be tightened before tightening the follower bolts.
 - The gripper bolts are painted in red on the outer edge.
3. Smooth out all weldings and spikes on the pipes spigot ends.
4. Remove any dirt cleaning the pipe surfaces thoroughly where the coupling is going to be installed.
5. Measure the coupling's length, L.
Mark the pipe spigot ends at L/2 to ensure the coupling will be centred over the gap once installed.
6. Lubricate all accessible faces of the sealing rings.
7. Slide the mechanical coupling onto one of the pipe spigot ends.
8. Bring the pipes into position until they are approximately 20 mm apart.
9. Slide the coupling over the gap centring it with the marks.
10. Check that the two pipe ends and the coupling are on the same axis. Use supports if necessary.
11. Tighten the follower bolts with a torque wrench in a criss-cross fashion increasing the torque gradually in steps of 5Nm every full round to pull the followers evenly. Check that the followers remain parallel to one another.
12. Do not tighten the gripper bolts before tightening the follower bolts. The gripper bolts are painted in red on the outer edge. Please make sure the red side is shown before tightening.
13. After having fully tightened the follower bolts to the recommended torque value, tighten the gripper bolts by hand until they all touch the pipe surface.
14. Tighten the gripper bolts with the torque wrench in a criss-cross fashion increasing the torque gradually by 5Nm every full round until the recommended torque value is achieved.
15. After having fully tightened the grippers' bolts, it is necessary to check again the compression bolts and close them again in order to achieve the suggested torque.

Recommended torque for the M16 follower bolts

- Diameters from 288 mm to 799 mm 60/80 Nm on PE pipes and metal pipes
- Diameters > 800 mm 150/170 Nm on PE pipes and metal pipes

Recommended torque for the gripper bolts

- 50 Nm on PE pipes (**) from 288 mm to 799 mm for Multigrip S
- 60 Nm on PE pipes (**) from 288 mm to 799 mm for Multigrip D
- 120 Nm on metal pipes from 288 mm to 799 mm
- 130/150 Nm on PE and metal pipes for diameter > 800 mm

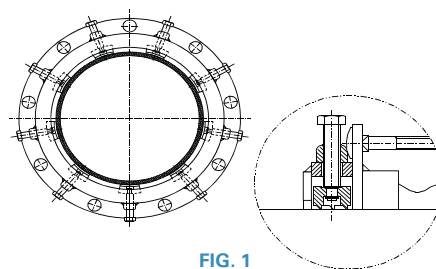


FIG. 1

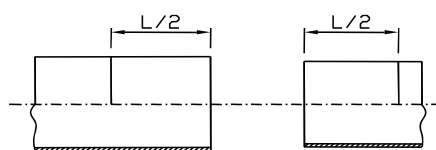


FIG. 2

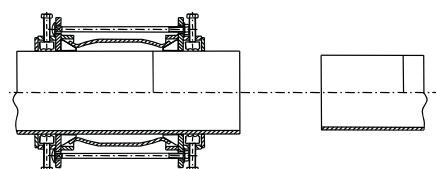


FIG. 3

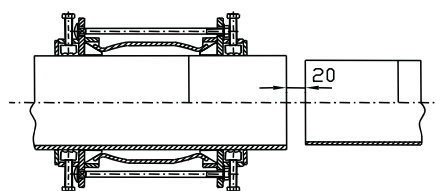


FIG. 4

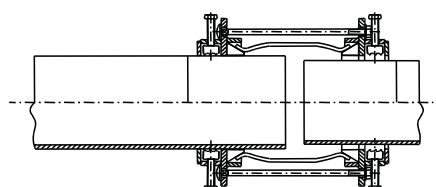


FIG. 5

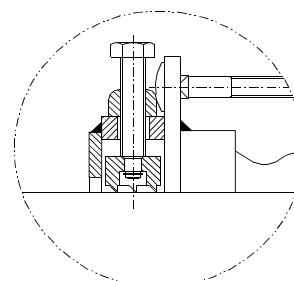


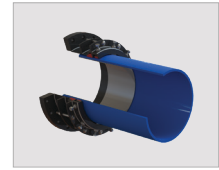
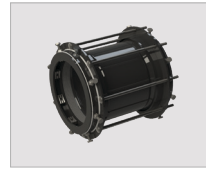
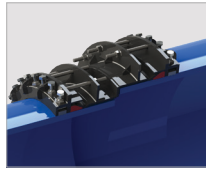
FIG. 6

* PE pipes require the use of appropriate **reinforcing liners**

** In case of PE pipes, the whole surface of the arch-shaped grippers have to penetrate the plastic pipe so that no space should be seen between each gripper arched surface and the pipe after tightening. This might be achieved with less than the maximum recommended torque depending on the pipe surface - please check visually.

QUOTE REQUEST FORM

As the Nova Siria Multigrip fittings are custom made to suit your application, we need some specific detail to provide you with the appropriate fitting. Please fill out the form below and return it to us for your quotation.



1. PIPE FEATURES

Nominal diameter		Nominal pressure, Maximum operating pressure	
Outside diameter side A		Outside diameter side B (if different from side A)	
Pipe material side A		Pipe material side B (if different from side A)	
Pipe type (class, SDR etc) side A		Pipe type (class, SDR etc) side B	
Other pipe features			

2. FLUIDS INVOLVED AND PHYSICAL PROPERTIES

Water		Gas		Sewage		Oil	
Chemicals				Min/max fluid temperature			
Other							

3. TYPE OF FITTING / FLANGE DRILLING

Straight coupling	<input type="checkbox"/>	Reducer	<input type="checkbox"/>	Flange adaptor:	Flange pattern	<input type="checkbox"/>
					Flange DN	<input type="checkbox"/>

4. OTHER FEATURES

Single bolt type		Double bolt type	
Dacromet coated bolts		Grade 316 SS bolts	
EPDM rubber rings	NBR Rubber rings		
Other special features			

Name:
Company:

Signature

Branches Nationwide Support Office & Technical Services 0800 93 7473

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