

## HEGAWA WideTolerance

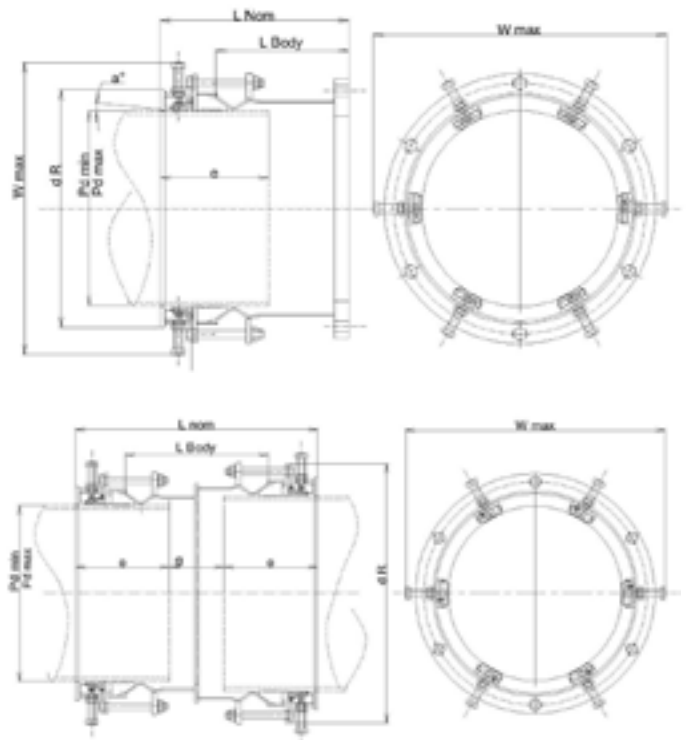
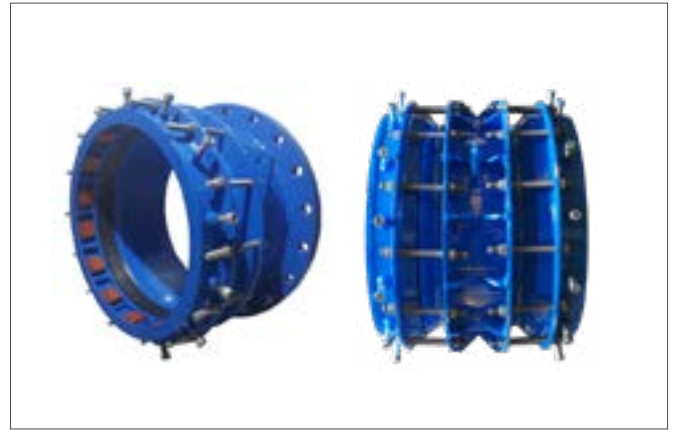
### WIDE TOLERANCE RANGE END RESTRAINED MECHANICAL COUPLINGS AND FLANGE ADAPTERS

#### Application

Hegawa universal wide-tolerance range end restrained mechanical couplings and flange adapters provide end-load resistant connections between plain ended pipes and flange elements or connections between plain ended pipes of the same or different outside diameters.

#### Advantages

- DN 300 up to and including DN 1200
- Suitable for any pipe material
- 30 mm tolerance on pipe OD
- Installation requires only a torque wrench
- Easy to install even on out-of-round pipes
- Easy installation to be performed on side bolts only.
- Dynamically restrain axial movement of pipes
- Allow angular deflection before and after installation
- Working pressures 10 bar or 16 bar

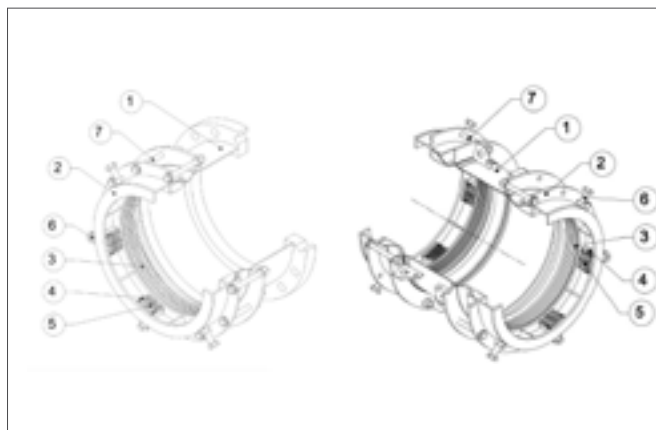


# HEGAWA

## WIDE TOLERANCE SPECIFICATIONS

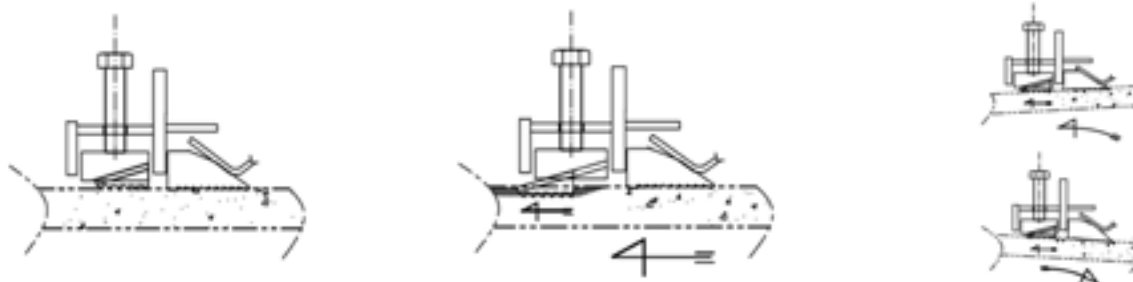
### Material specifications

Nr.	Parts	Materials	Standard
1	Body & Flange	S275JR Steel	EN 10025
2	End Rings	S275JR Steel	EN 10025
3	Rubber Ring	EPDM	EN 681
4	Gripper Case	XYLAN Coated C40 Steel	
5	Grippers	XYLAN Coated C40 Steel	
6	Gripper Bolts	Steel Grade 12.9 Galvanised	EN ISO 898-1, 4018, 7091
7	Ring Bolts, Nuts & Washers	Galvanised	EN ISO 898-1, 4018, 7091
-	Body Coating	Fusion Bonded Epoxy	WRAS Approved



References	Description
ANSI/AWWA C219	Bolted sleeve-type couplings for plain-end pipes
BS 8561	Specification for mechanical fittings for use in the repair, connection and renovation of pressurized water supply pipelines. Requirements and test methods.
EN 10025	European standard for structural steel
EN 681-1	Elastomeric seals. Material requirements for pipe joint seals used in water and drainage applications
EB 682	Elastomeric seals. Materials requirements for seals used in pipes and fittings carrying gas and hydrocarbon fluids
EN ISO 891-1	Mechanical properties of fasteners made of carbon steel and alloy steel
EN ISO 4018	Hexagon head screws. Product grade C
EN ISO 7091	Plain washers: normal series. Product grade C
EN 545	Ductile iron pipes, fittings, accessories and their joints for water pipelines. Requirements and test methods

### Technical concept



The Restraint Unit is engaged by tightening the Socket head Cap Screw (12.9) until the metal teeth engage firmly onto the pipe.

The Restraint Unit is then ticked into position, if the parent pipe tries to pull out, the restraint unit complete with the metal teeth will follow and lock into position.

The Restraint Unit will move in an angular direction after locking, still holding the pipe in position.