
HYDROPOWERED NW 32 PIPING AND FITTINGS

WITH STAPLE LOCK CONNECTION



APPLICATION

The NW 32 pipe and fittings, bends, tees, etc. are intended for use in hydropower systems as an alternative to using long NW 32 hoses. It is a more durable and economic solution than hoses where installations are semi-permanent installations.

If larger diameter pipes and higher operating pressures are required, then Novatek can supply pipes from 50 NB and in thicker wall sections. These are normally joined using split connectors (U cone type).

The pipes are easily and quickly connected to each other, fuses, valves, manifolds and hoses. They can similarly be uninstalled and moved to new working areas.

The piping has the following features:

- Male staple lock connection at one end, female at the other.
- Easily connected to fuses, valves, manifolds and hoses without adaptors.
- Piping is manufactured from ASTM A 106 B carbon steel, schedule 40.
- Easily disconnected and reused.

SPECIFICATIONS

Piping Material and Specification	ASTM A 106 B carbon steel, schedule 40. Fittings may be sched 40 or 80. System pressure rating is however determined by the lowest schedule.
End Fitting Material and Specification	Stainless steel grade 304 or 316 Male staple lock – 1 end Female staple lock – 1 end
Welding	Fittings butt welded to ANSI 16.9
External coating	Pipe is painted, fittings are uncoated. Hot dip galvanised optional at extra cost.
Internal coating	Uncoated is standard. Hot dip galvanised optional at extra cost.
Recommended operating pressure rating from ANSI B31.3	17 MPa - for 12.5% mill tolerance, allowable stress of 138 MPa and 0.635 mm corrosion allowance (estimated 5 year life – based on water quality to COMRO spec). RECOMMENDED
	21.7 MPa - for 12.5% mill tolerance, allowable stress of 138 MPa and without corrosion allowance (life dependent on water quality)
Test pressure	1.5 x operating pressure. All piping is 100 % pressure tested prior to delivery.
Mass	Approx 3.4 kg/m dry, 4.4 kg/m wet.
Pipe support	Chain or cable support recommended at intervals of 1.5m, support in both directions at bends in long pipe runs.
Sealing	O rings 90 shore hardness and backup ring on male fitting.
Available sizes	Straight pipes available in standard lengths of 3m, 6m, other sizes per request. Fittings: 45 and 90 degree bends, tee pieces.
Supply	Supplied with plastic protective end caps.

Note that specifications are subject to change without notice. Products are subject to patent protection.