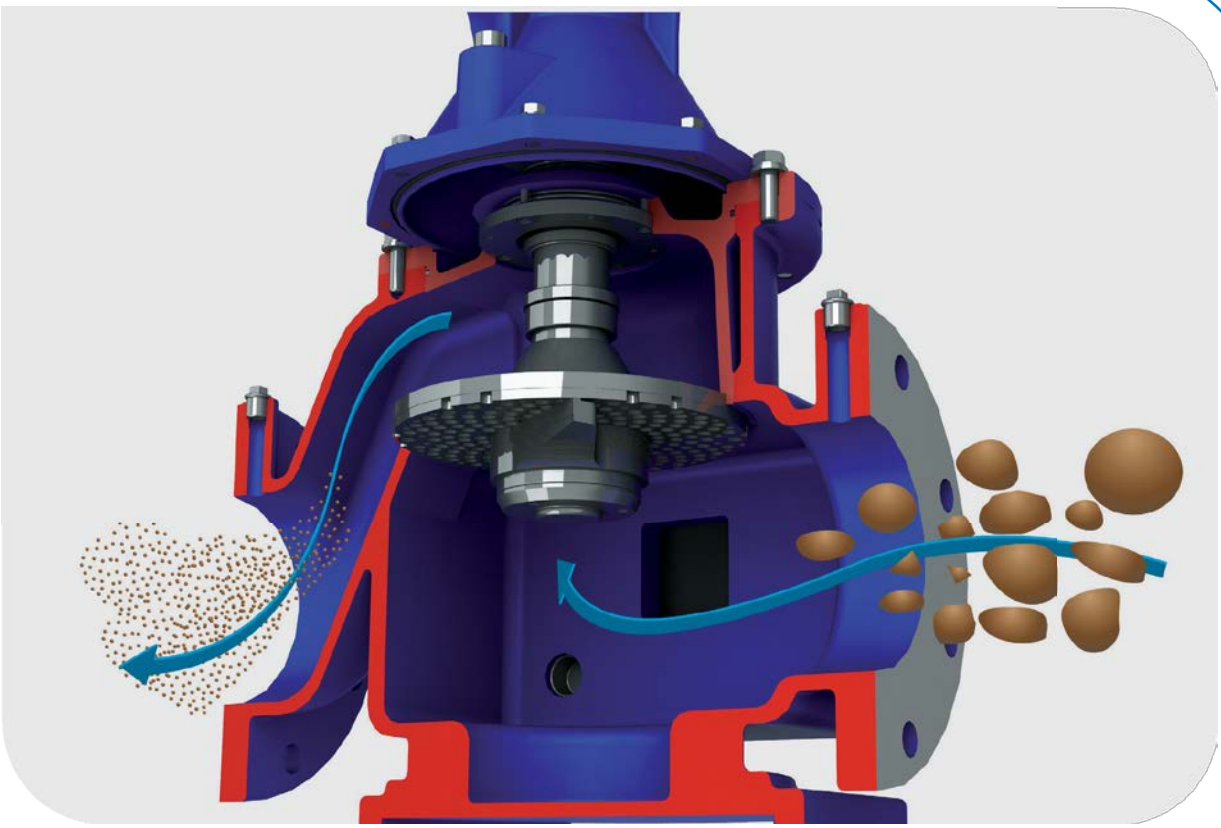
HAIGH



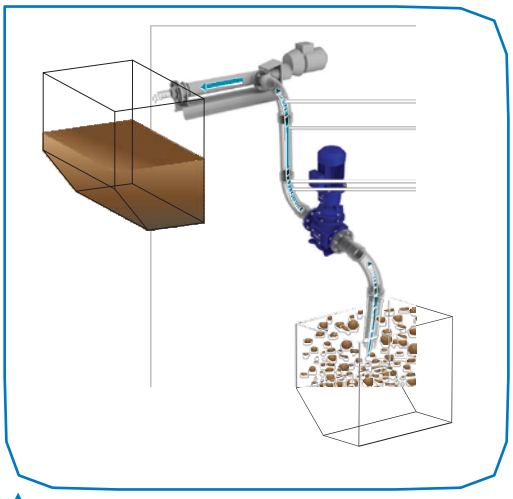
Pipeliner™

Waste Water Experience
& Innovation

www.haigh.co.uk

Pipeliner™

THE HAIGH PIPELINER™ RANGE PROVIDES A RELIABLE, STRAIGHTFORWARD SYSTEM FOR DISINTEGRATION, MACERATION OR CONDITIONING OF SOLIDS IN FLOW.



Typical Pipeliner™ installation showing conditioning of sludge.

HOW DOES HAIGH PIPELINER™ WORK?

The Haigh Pipeliner has been proven in many applications worldwide over the past 15 years. This simple, yet effective waste water conditioner is widely acknowledged for the quality and reliability of its cutting action in reducing solids to small particles.

The Pipeliner design consists of a single shaft rotating a headstock.

The headstock contains tungsten carbide-tipped cutting edges running against a hardened tool steel shearplate.

The shearplate contains holes that allow fluid to pass through. Anything that goes through the Piperliner must pass through these holes.

As string and other debris pass through the holes, the rotating cutting edge of the headstock severs them. Large pieces of wood or plastic are pushed to the holes, chipped and hammered into small enough pieces to eventually pass through.

THE EFFECTIVE SOLUTION TO SOLIDS HANDLING

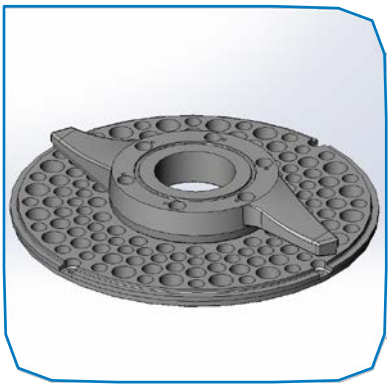
The Haigh Pipeliner provides effective solutions to the disruptive time consuming and costly problems of ragging and inconsistent particle size frequently associated with solids handling in wastewater treatment processes.

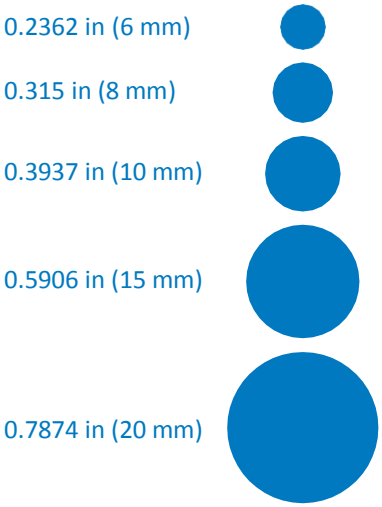
- Spring - loaded headstock assembly maintains constant force against the shearplate.
- Tungsten carbide cutters remain in contact with the shearplate for the life of the cutter, eliminating the need for adjustment.
- Cutters can be replaced without disconnecting suction and discharge piping.
- One single mechanical seal with silicon carbide faces.
- Simple, effcient design needs minimal maintenance.
- The unique design characteristics of the Pipeliner cutters minimize the chance of jamming, eliminating the need for expensive reversing controls.
- 15mm standard shearplate hole size rejects potentially damaging materials such as stones, certain plastics and large pieces of wood.
- Optional hole sizes of 6,8,10,15 and 20mm available for unexcelled cutting action.
- Three modules available to fit your requirements.

FEATURES AND BENEFITS

Headstock & Shearplate

The technologically advanced headstock and shearplate offer the following benefits:





Particle size is a function of hole size and rotational speed. The holes range in size as follows (to scale)*.

*Additional hole sizes are available for unexcelled cutting action.

Wear-compensating, springloaded headstock assembly maintains constant force against the shearplate and produces consistent particle size regardless of cutter wear.

Shearplate acts as a screen, rejecting stones, cans, large pieces of metal and wood that may damage pumps, filters, valves and other equipment.

Tungsten carbide cutters remain in contact with the shearplate for the life of the cutter, eliminating the need for adjustment.

Quick, on-site cutter replacement without disconnecting piping.

Headstock, shearplate and body casting designs minimize jamming and eliminate the need for expensive anti-jamming devices

15mm standard shearplate hole size rejects potentially damaging materials such as stones, certain plastics and large pieces of wood.

Quick change cartridge assembly

Haigh Pipeliners feature the 'quick change' cartridge assembly. Removal is simple:

- Separate the gearmotor from the Pipeliner.
- Remove the bolts and lift the cartridge assembly away from the suction and discharge port casting.

Additional benefits include:

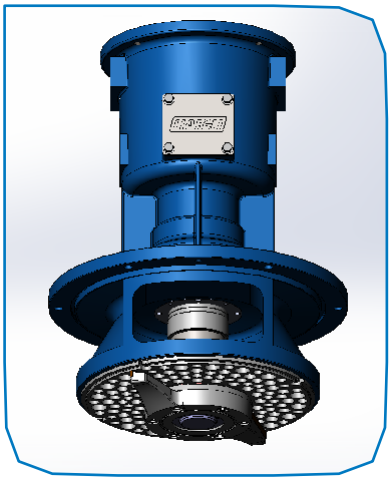
- Simple one-piece design allows easy maintenance
- Remove and replace cartridge assembly in minutes with standard tools and without disconnecting piping
- Cost effective on-site servicing with off-the-shelf cartridge replacement.
- Reduces costly process downtime.

CAPABILITIES

The below chart illustrates the Haigh Pipeliner processing capabilities by model number.

Effluent	Pipeliner Model	Max Flow Rate US GPM	Motor HP	Geared Motor Nominal Output Speed
Raw Sewage	P215G30A	200 GPM	3 HP	460 rpm
	P315G50A	400 GPM	5 HP	360 rpm
	P415G100A	1200 GPM	10 HP	250 rpm
Sludge 3 -5%	P215G30A	125 GPM	3 HP	460 rpm
	P315G50A	300 GPM	5 HP	360 rpm
	P415G100A	850 GPM	10 HP	250 rpm
Sludge 5 – 8%	P215G30A	75 GPM	3 HP	460 rpm
	P315G50A	200 GPM	5 HP	360 rpm
	P415G100A	650 GPM	10 HP	250 rpm

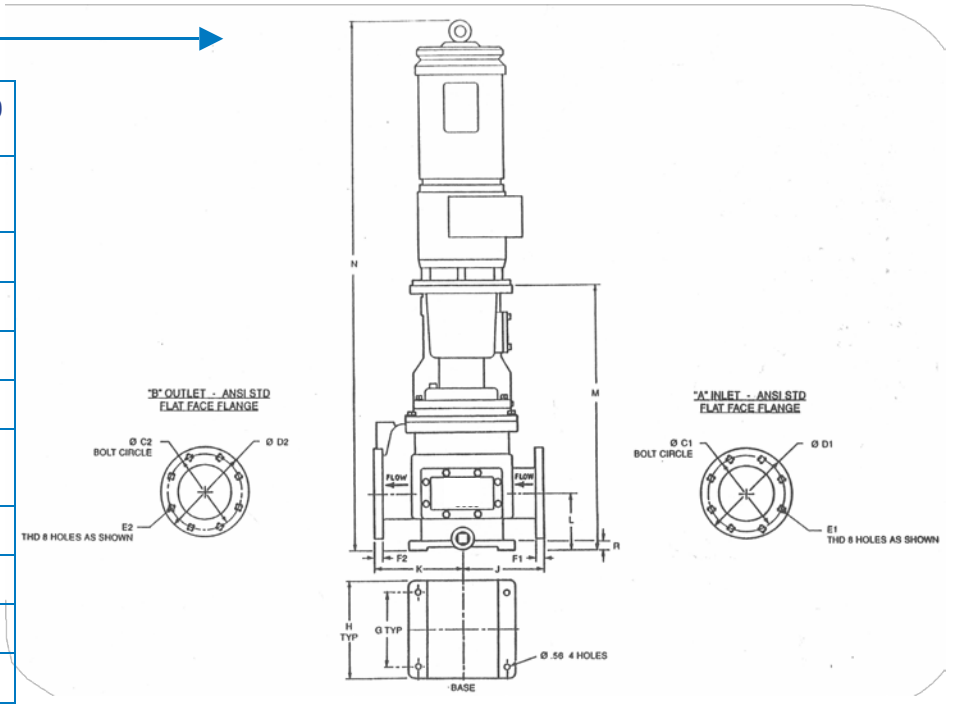
▲▼ Quick change cartridge assembly



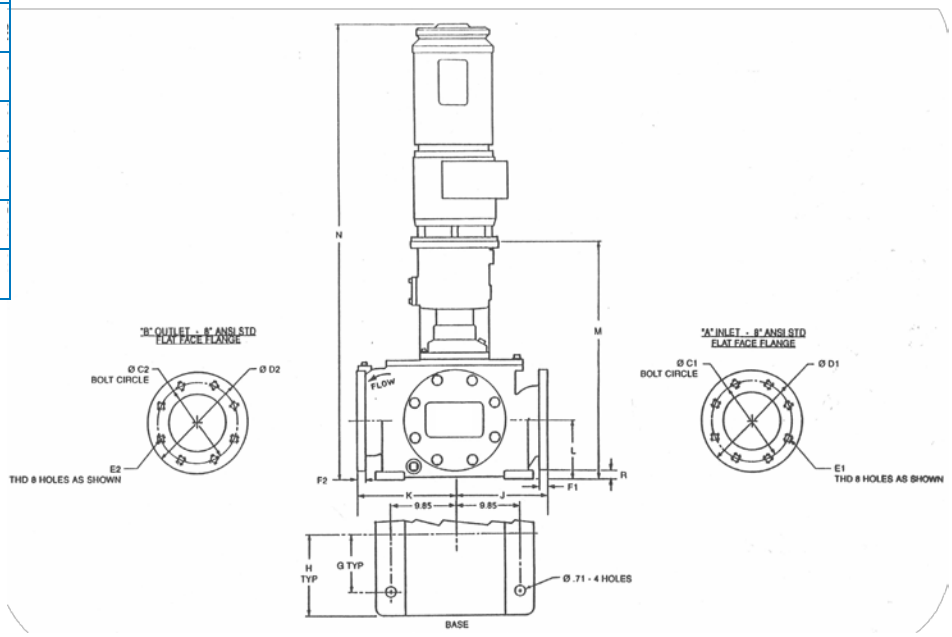
INSTALLATION DRAWING

Pipeliner model(s) - P215G30 & P315G50

Model no.	P215G30	P315G50	P415G100
'A' inlet	4.00	6.00	8.00
C1	7.50	9.50	11.75
D1	8.66	11.00	13.50
E1	.62-11	.75-10	.75-10
F1	.79	.79	1.19
'B' outlet	4.00	6.00	8.00
C2	7.50	9.50	11.75
D2	8.66	11.00	13.50
E2	.62-11	.75-10	.75-10
F2	.79	.79	1.19
G	8.66	10.62	9.85
H	10.25	11.81	10.62
J	7.88	9.45	12.19
K	8.66	10.25	13.00
L	5.51	7.09	7.88
M	25.98	27.44	31.50
N	48.25	50.67	60.25
R	1.00	1.88	1.19



Pipeliner model - P415G100



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