

CDI Meters HP Option

HIGH-PRESSURE OPTION FOR CDI FLOWMETERS

Provides:

- O-Ring seals suitable for use up to 650 psig (41 barg) when mounted on suitable pipe
- Meter calibration adjusted for best accuracy at chosen pressure



DESCRIPTION

The –HP option provides an O-ring seal suitable for high-pressure applications and adjustments of the meter's calibration for the wall thickness of the pipe on which the meter will be used and properties of air at the elevated pressure. Each seal consists of an O-ring around a probe, surrounded by an aluminum plate that maintains space for the O-ring between the pipe and the meter's ring, while at the same time supports the O-ring so that it can contain the high pressure.

INSTALLATION

Note the pressure limitations below. Follow the normal installation procedure for the meter. Be sure to smooth the pipe with a file in the area where the seals will make contact with it.

PRESSURE LIMITATIONS

US Sched. 40 Black Steel Pipe		
nominal size (in)	maximum working pressure	
	psig	barg
0.75	650	44.8
1	650	44.8
1.5	650	44.8
2	543	37.4
3	513	35.3
4	429	29.5

British Standard Pipe – Medium Weight				
nominal size		wall (mm)	maximum working pressure	
DN	(in)		psig	barg
20	0.75	2.6	650	44.8
25	1	3.2	650	44.8
40	1.5	3.2	566	39.0
50	2	3.6	487	33.5
80	3	4.0	366	25.2
100	4	4.5	308	21.2

US Sched. 80 Black Steel Pipe		
nominal size (in)	maximum working pressure	
	psig	barg
0.75	650	44.8
1	650	44.8
1.5	650	44.8
2	650	44.8
3	650	44.8
4	642	44.2

British Standard Pipe – Heavy Weight				
nominal size		wall (mm)	maximum working pressure	
DN	(in)		psig	barg
20	0.75	3.2	650	44.8
25	1	4.0	650	44.8
40	1.5	4.0	650	44.8
50	2	4.5	632	43.5
80	3	5.0	447	30.8
100	4	5.4	379	26.1