

# OCTAL DRILL PIPES

## Heavy Weight Drill Pipe Technical Data Sheet

Rebuilt from the supplied heavy weight drill pipe reference images. The original screenshot content has been extracted and reorganized into editable technical tables for quotation support, website use, and internal reference packaging.

Contents	Purpose
<ol style="list-style-type: none"><li>1. Integral Heavy Weight Drill Pipe</li><li>2. Spiral Weight Heavy Weight Drill Pipe</li><li>3. Welded Heavy Weight Drill Pipe</li><li>4. Material Specifications and Mechanical Properties</li></ol>	To preserve the source dimensions, connection names, and material-property values under the <b>OCTAL DRILL PIPES</b> brand in a clean PDF layout.

Notes: Dimensions and fractional sizes are preserved in the same form used in the supplied images. Grouped values indicate the alternative bore or joint combinations shown in the source tables.

# Heavy Weight Drill Pipe Types and Specifications

## Integral Heavy Weight Drill Pipe

Size	Outer Diameter	Inside Diameter	Joint Outer Diameter	Joint Inside Diameter	Connecting Thread	Slip Max. Diameter	Upset Middle Diameter	Min. Drift Diameter
3 1/2	3 1/2	2 1/4 2 1/16	4 3/4 (4 7/8, 5)	2 1/4 2 1/16	NC38	3 7/8	4	2 1 13/16
4	4	2 1/2 2 9/16	5 1/4	2 1/2 2 9/16	NC40	4 3/16	4 1/2	2 1/4 2 5/16
4 1/2	4 1/2	2 11/16 2 3/4 2 13/16	6 1/4	2 11/16 2 3/4 2 13/16	NC46	4 11/16	5	2 7/16 2 1/2 2 9/16
5	5	3	6 5/8	3	NC50	5 1/8	5 1/2	2 3/4
5 1/2	5 1/2	3 1/4 3 3/8 3 7/8 4	7 (7 1/4, 7 1/2)	3 1/4 3 3/8 3 7/8 4	5 1/2 FH	5 11/16	6	3 3 1/8 3 5/8 3 3/4
6 5/8	6 5/8	4 4 1/2 5	8 (8 1/4, 8 1/2)	4 4 1/2 5	6 5/8 FH	6 15/16	7 1/8	3 3/4 4 1/4 4 3/4

All values above are extracted from the supplied reference image. Fractions and bracketed alternatives are kept in source format for easier technical cross-checking.

# Spiral Weight and Welded Heavy Weight Drill Pipe

## Spiral Weight Heavy Weight Drill Pipe

Outer Diameter mm (inch)	ID (mm)	Elevator Upset (mm)	Elevator Groove/Slip Outside Diameter (mm)	Screw In Diameter (mm)	Spiral Groove Depth (mm)	Thread Type	wm OD (mm)	wm ID (mm)
88.9 (3 1/2)	54	92.1	88.9	101.6	9.5	NC38	120.6	54
114.3 (4 1/2)	69.8	117.5	114.3	127	12.7	NC46	158.8	69.8
127.0 (5)	76.2	130.2	127	139.7	12.7	NC50	165.1	76.2

## Welded Heavy Weight Drill Pipe

Type	Outer Diameter mm	Outer Diameter in	Inside Diameter mm	Joint Type
MJZ29-NC31-I/II	73.03	2 7/8	50.8	NC31
MJZ35-NC38-I/II	88.9	3 1/2	57.15 52.39	NC38 (3 1/2 IF)
MJZ40-NC40-I/II	101.6	4	63.5 65.09	NC40 (4 FH)
MJZ45-NC46-I/II	114.3	4 1/2	68.26 69.85 71.44	NC46 (4IF)
MJZ50-NC50-I/II	127	5	76.2	NC50 (4 1/2 IF)
MJZ55-5 1/2 FH-I/II	139.7	5 1/2	82.55 85.72 98.42 101.6	5 1/2 FH
MJZ66-6 5/8 FH-I/II	168.3	6 5/8	101.6 114.3 127	6 5/8 FH

# Heavy Drill Pipe Material Specifications and Mechanical Properties

## Chemical Composition

Steel Material Grade	C	Si	Mn	P	S	Cr	Mo	Cu	Al
4145H	0.42 - 0.48	0.15 - 0.35	0.90 - 1.20	≤ 0.03	≤ 0.03	0.90 - 1.20	0.15 - 0.25	≤ 0.2	0.025 - 0.045

Other Elements: N ≤ 0.015, Ni ≤ 0.5

## Heavy Drill Pipe Mechanical Properties

Yield Strength MPa	Yield Strength Psi	Tensile Strength MPa	Tensile Strength Psi	Elongation A%	HB	Charpy Impact Akv J
≥ 758	≥ 110000	≥ 965	≥ 140000	≥ 13	285 - 341	≥ 54

Prepared from the three user-supplied heavy weight drill pipe images, with the source data kept in editable table form for easier reuse in product literature and quotation packs.