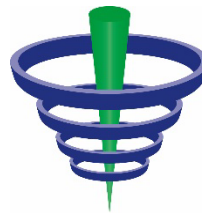


CONSEP ROD CHARGER QUESTIONNAIRE



CONSEP

WE ENGINEER INNOVATION

Customer: _____

Date: _____

Project: _____

Contact Person: _____

Position: _____

Email: _____

Note: Please refer to drawings SK01 and SK02.

1 Vessel:

1.1 Shell outside radius _____

1.2 Vertical distance from horizontal centre line
Of vessel to centre line of tuyere working point (W.P.) _____

1.3 Punching angle relative to the horizontal _____

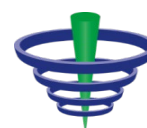
1.4 Radius inside refractory _____

1.5 Riding ring radius _____

2 Tuyere Body:

2.1 Length of tuyere and silencer from W.P. (see 1.2) _____

2.2 Inside diameter of tuyere pipe _____



Structure:

- 3.1 *Distance from horizontal centre line of vessel to Top of punching platform rail support steel* _____
- 3.2 *Headroom from top of punching platform rail support steel* _____
- 3.3 *Horizontal distance from vertical centre line at Vessel to face of rear support columns* _____
- 3.4 *Horizontal distance from vertical centre line at Vessel to edge of punching platform* _____

4 Tuyere Line:

- 4.1 *Tuyere spacing* _____
- 4.2 *Total number of tuyeres* _____
- 4.3 *Number of tuyeres outboard of riding rings* _____
- 4.4 *Position of outboard tuyeres (if equipped) (e.g., left, right, both sides, etc.)* _____
- 4.5 *Position of (Left) Riding Ring relative to tuyere* _____
- 4.6 *Position of (Right) Riding Ring relative to tuyere* _____
- 4.7 *Width of Riding Ring* _____
- 4.8 *Horizontal distance from centre line of Vessel to centre of support columns* _____
- 4.9 *Horizontal distance from edge of (Left) support column to first tuyere* _____
- 4.10 *Horizontal distance from edge of (Right) support column to last tuyere* _____

4.11 *Size of support column* _____

4.12 *Horizontal distance from last tuyere to Mud Gun
(if equipped)* _____

5 Utilities:

5.1 Compressed (Plant) Air

5.1.1 *Nominal (average) pressure* _____

5.1.2 *Filtration (particle size)* _____

5.1.3 *Dew Point Temperature* _____

5.1.4 *Oil Contamination* _____

5.1.5 *Water Contamination* _____

5.2 Electrical/Instrumentation

5.2.1 *Single Phase Control Voltage/Frequency* _____

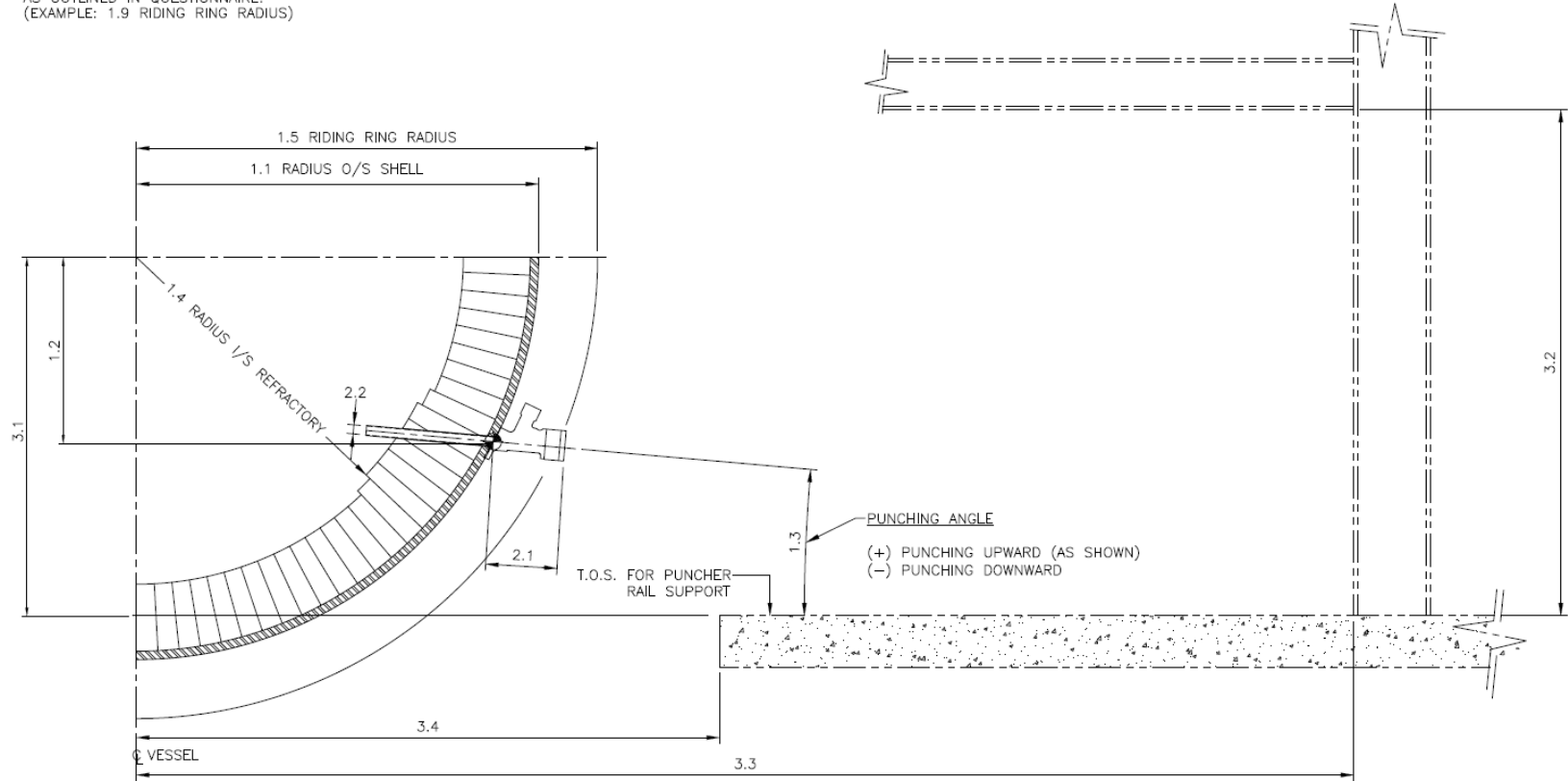
5.2.2 *Three Phase (small motor)
Voltage/Frequency* _____

5.2.3 *Preferred PLC input/output
control power (AC/DC/Voltage)* _____

5.2.4 *Preferred PLC Brand/Type* _____

NOTES:

1. CUSTOMER TO SUPPLY DIMENSIONS AS OUTLINED IN QUESTIONNAIRE. (EXAMPLE: 1.9 RIDING RING RADIUS)



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GASPE TUYERE PUNCHER QUESTIONNAIRE

HEATH & SHERWOOD (1964) LIMITED
MIRLAND LAKE, CANADA

DESIGNER	DATE	PROJECT NO.	SCALE
CHECKED BY	DATE	PROJECT NO.	SCALE
DATE	DATE	PROJECT NO.	SCALE
DATE	DATE	PROJECT NO.	SCALE

SCALE	N/A	DATE	31JAN19
DRAWN BY	SCH	CHECKED BY	
REV.	△	DATE	
DWG. NO.	D- SK01	REV.	△



NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION

