



ROTARY SWIVELS AND POWER SWIVELS

Rotary swivel represents the connecting equipment between the drilling string that rotates and the fixed part of the drilling mast ensuring:

- support of the drilling string during rotation;
- drilling fluid circulation.

The following types of rotary swivels are currently manufactured: CH-25; CH-80 and CH-100.

Power swivel represents the connecting equipment between the drilling string that rotates and the fixed part of the drilling mast ensuring:

- support of the drilling string during rotation;
- drilling fluid circulation;
- rotation of the drilling string.

Driving the swivel is achieved by means of a power pack.

The following types of rotary swivels are currently manufactured: CHM-50 and CHM-80.

Swivels and power swivels are designed according to the specification API 8C, quality level PSL1 and the following supplements: SR1, SR2, SR3, SR4, SR5.

Performance level is determined by additional requirements imposed on hydraulic heads only when specified in Client's order/contract and it may be, as appropriate, one or more of the following:

a. SR1 – Testing the test load

Remark: For swivels this test is mandatory even if it is not specified in Client's order/contract

b. SR2 – Low temperature

c. SR3 – Technical record book

d. SR4 – Volumetric non-destructive testing of castings

e. SR5 – Volumetric non-destructive testing of forgings

Remark: any additional requirements can be agreed upon between manufacturer and Client.

The dimensions of the contact surfaces of the bail with the hook comply with API Spec. 8C.

Connecting thread size (stem, gooseneck) meet API Spec 7-1; API Spec 5B.

The quality and technical performance provide a safe operation of the swivel.

For power swivels motors separate power packs can be provided.



CONFIND



Certificat ISO 9001:2000

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ROTARY SWIVEL CH-25

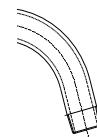
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TECHNICAL CHARACTERISTICS

- Maximum working load.....25 to
- Maximum speed.....300 rot/min
- Sub thread.....3¹/₂ REG LH (3¹/₂ N left)
- Gooseneck thread.....TE1-70 (2⁷/₈ NU)
- Gooseneck angle.....15°
- Maximum fluid pressure.....70 bar



ROTARY SWIVEL CH-80

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TECHNICAL CHARACTERISTICS

- Maximum working load.....80 tf
- Maximum speed300 rot/min
- Sub thread.....3 ½" IF (NC38) right / left
- Gooseneck thread.....LP 2"
- Gooseneck angle.....15°
- Maximum fluid pressure.....210 bar
- Rotation.....right / left
- Transportation.....skid mounted



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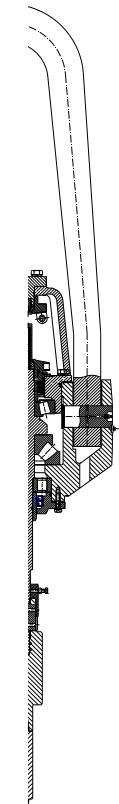
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ROTARY SWIVEL CH-100

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TECHNICAL CHARACTERISTICS

- Maximum working load.....100 to
- Maximum speed.....200 rot/min
- Sub thread4 ½ " REG, right / left
- Gooseneck thread.....LP 2"
- Gooseneck angle.....15°
- Maximum fluid pressure.....345 bar
- Rotation.....right / left
- Transport.....skid mounted



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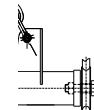
POWER SWIVEL CHM-80

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TECHNICAL CHARACTERISTICS

- Maximum working load.....
- Connection thread Kelly cock-string.....3 1/2 in IF right/left
- Gooseneck thread.....LP 2"
- Gooseneck angle.....15°
- Maximum fluid pressure.....340 bar
- Maximum torque.....800 kgm
- Speed at maximum torque.....90 rot/min
- Maximum speed.....140 rot/min
- Torque at maximum speed.....500 kgm
- Rotation.....right/left
- Maximum fluid pressure in hydraulic system.....290 bar
- Flow in in hydraulic system.....280/min



POWER SWIVEL CHM-50

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TECHNICAL CHARACTERISTICS

- Maximum work load.....50 to
- Connection thread to string.....4 1/2 REG right/left
- Gooseneck thread.....LP 2 7/8"
- Gooseneck angle.....15°
- Maximum fluid pressure.....140 bar
- Maximum torque.....400 kgm
- Speed at maximum torque.....60 rot/min
- Maximum speed.....120 rot/min
- Torque at maximum speed.....200 kgm
- Rotation.....right/left
- Maximum fluid pressure in hydraulic system.....150 bar
- Flow in hydraulic system.....200/min



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SUMMARY OF TECHNICAL CHARACTERISTICS

Description		Rotary swivel			Power swivel	
		CH 25	CH 80	CH100	CHM50	CHM 80
Maximum working load	to	25	80	100	50	80
Connection thread with drilling string	-	3 ¹ / ₂ " REG LH	3 ¹ / ₂ " IF	4 ¹ / ₂ " REG	4 ¹ / ₂ REG	3 ¹ / ₂ in IF
Gooseneck connection thread	-	TE1-70 (2 ⁷ / ₈ NU)	2" LP	2" LP	2 ⁷ / ₈ " LP	2"LP
Maximum fluid pressure	bar	70	210	345	140	340
Maximum speed	rot/min	300	300	200	120	140
Torque at maximum speed	kgm	-	-	-	400	500
Maximum torque	kgm	-	-	-	400	800
Speed at maximum torque	rot/min	-	-	-	60	90
Maximum fluid pressure in hydraulic system	bar	-	-	-	150	290
Flow in hydraulic system	l/min	-	-	-	200	280
Rotation	-	left	right/left	right/left	right/left	right/left