深圳市远东石油钻采工程有限公司
SHENZHEN FAR EAST OIL DRILLING ENGINEERING LTD.

PRODUCT BROCHURE
REV. 03 · OCTOBER 2026



PRODUCT FAMILY

Subsea Wellhead Systems

FE-10 · FE-15

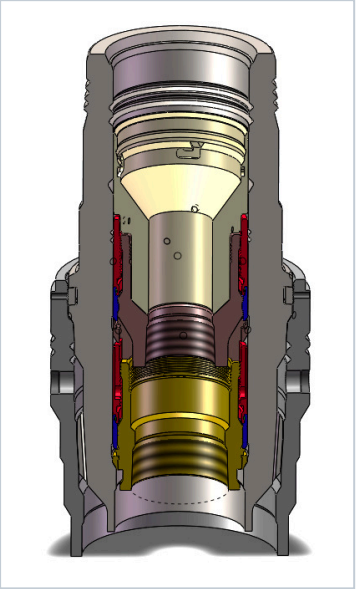
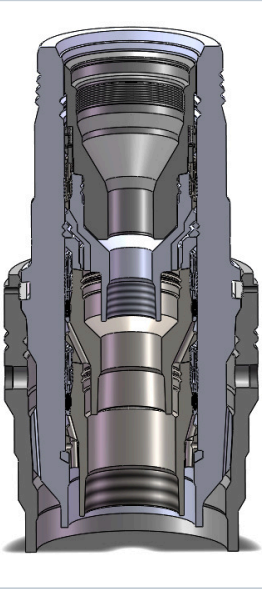
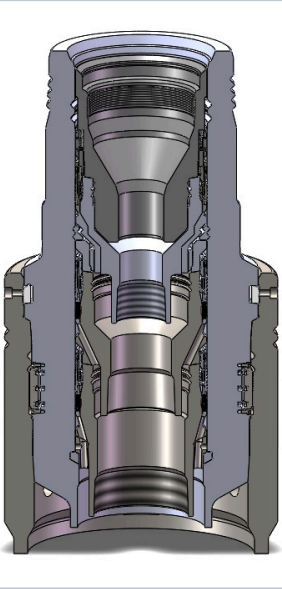
18-3/4 in. · 10,000 / 15,000 psi

FE-10 — 30 in. conductor housing

FE-15 — 30 in. or 36 in. conductor housing

Standard: API Spec 17D

FEODE Subsea Wellhead System Series

	FE-10	FE-15 · 30 in.	FE-15 · 36 in.
			
Conductor housing (low-pressure wellhead)	30 in., 13.8 MPa (2,000 psi)	30 in., 13.8 MPa (2,000 psi)	36 in., 13.8 MPa (2,000 psi)
HP wellhead housing	18-3/4 in., 69.0 MPa (10,000 psi)	18-3/4 in., 103.5 MPa (15,000 psi)	18-3/4 in., 103.5 MPa (15,000 psi)
Bending capacity	5.42 MN·m (4.0 MM ft-lbs)	5.42 MN·m (4.0 MM ft-lbs)	7.12 MN·m (5.25 MM ft-lbs)
Wellhead lock capacity	2,000 t (4,410 klbs)	2,000 t (4,410 klbs)	2,100 t (4,630 klbs)
Casing hanging capacity	680 t (1.5 MM lbs) @ 10,000 psi	1,360 t (3.0 MM lbs) @ 15,000 psi	1,360 t (3.0 MM lbs) @ 15,000 psi
System temperature	−18 °C to 121 °C (0 °F to 250 °F)	−29 °C to 177 °C (−20 °F to 350 °F)	−29 °C to 177 °C (−20 °F to 350 °F)
Casing strings suspended	3	3	3

Standard	API Spec 17D
Material	AISI 8630 MOD
Top connection	Compatible with H-4 connectors

FE-10





HP HOUSING PRESSURE
69.0 MPa (10,000 psi) with the standard seal assembly.

STANDARD AND MATERIAL
Designed to API Spec 17D; AISI 8630 MOD forgings.

	30 in. conductor housing	18-3/4 in. HP wellhead housing
Rated pressure	13.8 MPa (2,000 psi)	69.0 MPa (10,000 psi)
Max. OD	959 mm (37.75 in.)	787 mm (31 in.)
Min. bore	673 mm (26.5 in.)	446 mm (17.562 in.)
Temperature	−18 °C to 121 °C (0 °F to 250 °F)	−18 °C to 121 °C (0 °F to 250 °F)
Connection	Lower end: 30 in. conductor, 1.5 in. wall	Top: compatible with H-4 connectors; bottom: welded 20 in. casing
Bending capacity	5.42 MN·m (4.0 MM ft-lbs)	5.42 MN·m (4.0 MM ft-lbs)
Casing hanging capacity	—	680 t (1.5 MM lbs) @ 10,000 psi

RUNNING TOOLS



30 in. conductor housing running tool

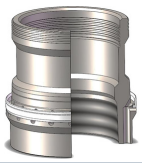
Type	Mechanical cam-driven; drilled-and-cemented or jetted
Rated load	612 t
Rated pressure	13.8 MPa (2,000 psi)



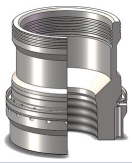
18-3/4 in. wellhead housing running tool

Type	Mechanical cam-driven
Rated load	612 t
Rated pressure	34.5 MPa (5,000 psi)

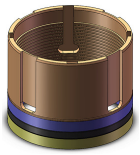
CASING HANGERS AND SEAL ASSEMBLY



13-3/8 in. casing hanger



9-5/8 in. casing hanger



Seal assembly

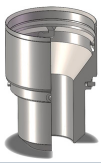
WEAR BUSHINGS



18-3/4 in. bushing



13-3/8 in. wear bushing



9-5/8 in. wear bushing



9-5/8 in. wear bushing, extended

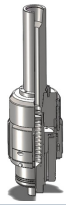
OPERATING AND TEST TOOLS



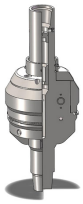
BOP test plug



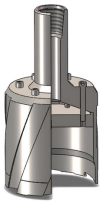
Seal assembly casing hanger handling tool



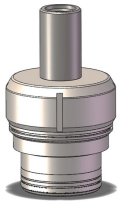
Seal assembly retrieving and running tool



Wear bushing handling tool



Washing tool



Test plug

Casing hanging capacity is rated at 10,000 psi. Ratings and dimensions are nominal. MM = million.

FE-15







For 30 in. conductor housing

For 36 in. conductor housing

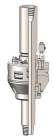
	30 in. conductor housing	36 in. conductor housing	18-3/4 in. HP wellhead housing
Rated pressure	13.8 MPa (2,000 psi)	13.8 MPa (2,000 psi)	103.5 MPa (15,000 psi)
Max. OD	959 mm (37.75 in.)	981.5 mm (38.64 in.)	787 mm (31 in.); 840 mm (33.07 in.)
Min. bore	673 mm (26.5 in.)	767.5 mm (30.22 in.)	446 mm (17.562 in.)
Temperature	−29 °C to 177 °C (−20 °F to 350 °F)	−29 °C to 177 °C (−20 °F to 350 °F)	−29 °C to 177 °C (−20 °F to 350 °F)
Connection	Lower end: 30 in. conductor, 1.5 in. wall	Lower end: 36 in. conductor, 2.0 in. wall	Top: compatible with H-4 connectors; bottom: welded 20 in. casing
Bending capacity	5.42 MN·m (4.0 MM ft-lbs)	7.12 MN·m (5.25 MM ft-lbs)	5.42 MN·m (4.0 MM ft-lbs); 7.12 MN·m (5.25 MM ft-lbs)
Casing hanging capacity	—	—	1,360 t (3.0 MM lbs) @ 15,000 psi

RUNNING TOOLS



36 in. conductor housing running tool

Type	Mechanical cam-driven; drilled-and-cemented or jetted
Rated load	612 t
Rated pressure	13.8 MPa (2,000 psi)



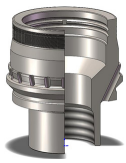
18-3/4 in. wellhead housing running tool

Type	Mechanical cam-driven
Rated load	612 t
Rated pressure	34.5 MPa (5,000 psi)

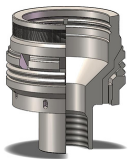
CASING HANGERS AND SEAL ASSEMBLY



13-3/8 in. casing hanger



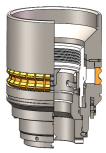
9-5/8 in. casing hanger



7 in. (or 7-5/8 in.) casing hanger



Seal assembly



Lock bushing

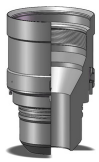
WEAR BUSHINGS



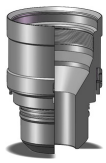
18-3/4 in. wear bushing



13-3/8 in. wear bushing



9-5/8 in. wear bushing



7 in. (or 7-5/8 in.) wear bushing

OPERATING AND TEST TOOLS



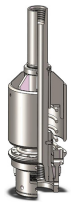
BOP test plug



Seal assembly casing hanger handling tool



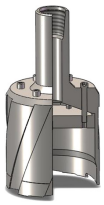
Seal assembly retrieving tool



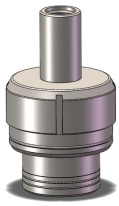
Wear bushing handling tool



Lock bushing handling tool



Washing tool



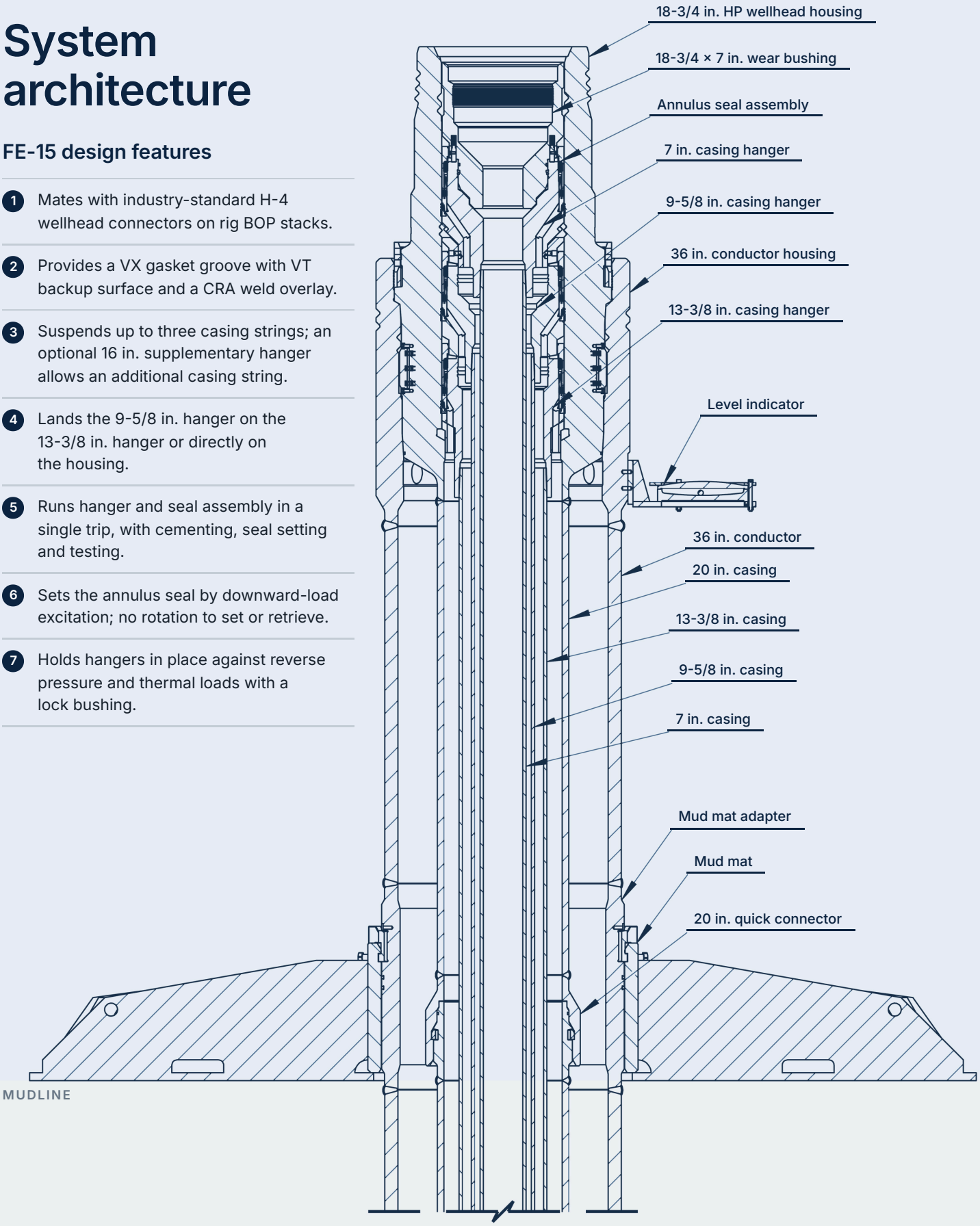
Test plug

Seal assembly: 103.5 MPa (15,000 psi), −29 °C to 177 °C (−20 °F to 350 °F); suits all casing hangers of 13-3/8 in. and smaller.

System architecture

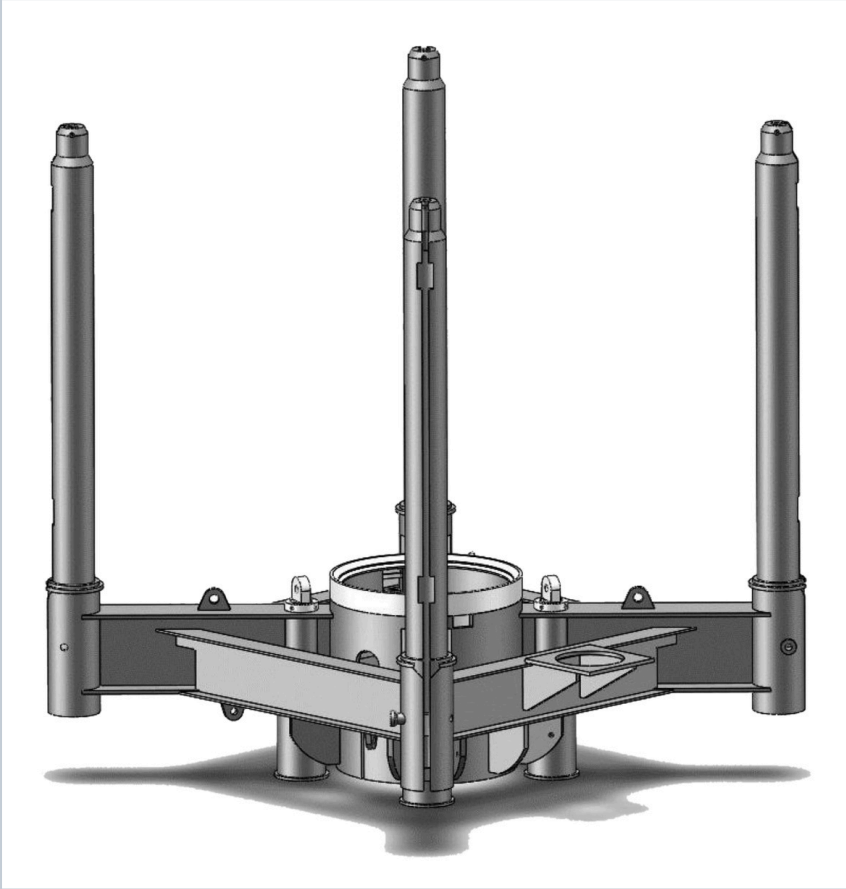
FE-15 design features

1. Mates with industry-standard H-4 wellhead connectors on rig BOP stacks.
2. Provides a VX gasket groove with VT backup surface and a CRA weld overlay.
3. Suspends up to three casing strings; an optional 16 in. supplementary hanger allows an additional casing string.
4. Lands the 9-5/8 in. hanger on the 13-3/8 in. hanger or directly on the housing.
5. Runs hanger and seal assembly in a single trip, with cementing, seal setting and testing.
6. Sets the annulus seal by downward-load excitation; no rotation to set or retrieve.
7. Holds hangers in place against reverse pressure and thermal loads with a lock bushing.



Common components

Two components shared by FE-10 and FE-15.



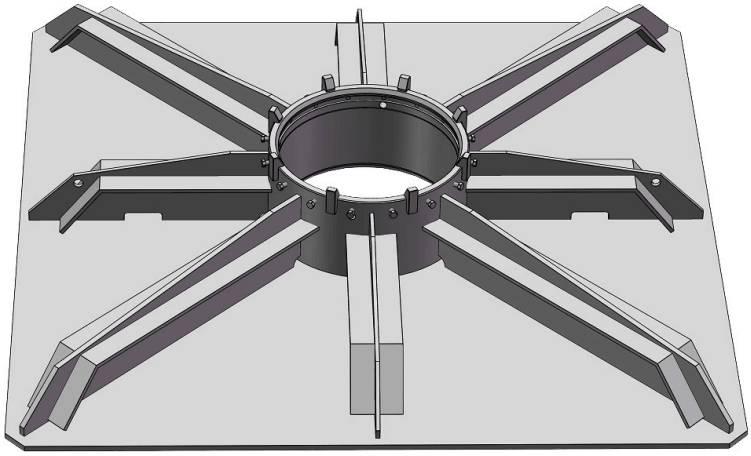
Permanent guide base

For 30 in. conductor housing operations

Mud mat

For 36 in. wellhead operations

- Seats on the seabed as a stable base and prevents the wellhead from settling.
- Bearing capacity 260 t (573 klbs).
- Size 3,660 × 3,660 × 532 mm (12 × 12 × 1.74 ft).
- Anti-rotation bolts; mounting point for grounding and cathodic protection.



HUIZHOU PRODUCTION AND SERVICE BASE, DAYA BAY · COMMISSIONED IN 2018

Manufactured and tested in-house

Machining, CRA cladding, assembly and testing at the Huizhou base, within an API Spec Q1 quality management system.



CNC turn-mill center



Explosion-proof underwater test pool, 8.8 × 8.8 × 10 m (28.9 × 28.9 × 32.8 ft), 24 underwater camera channels.



Pressure test control and monitoring system



CRA cladding, automatic hot-wire TIG: bore 38–1,500 mm (1.5–59 in.), overlay reach to 2,000 mm (78.7 in.).



Environmental chamber, −40 °C to 200 °C (−40 °F to 392 °F).

Base	31,948 m² (344,000 ft²), Daya Bay, Huizhou; 11 overhead cranes, up to 80 t
Machining envelope	Discs Ø2,000 mm (Ø78.7 in.); shafts Ø1,600 × 6,000 mm (Ø63 × 236 in.); workpieces up to 10 t
Pressure testing	Hydrostatic 206.8 MPa (30,000 psi); gas 137.9 MPa (20,000 psi)

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BUSINESS LINES

Subsea wellhead systems, deepwater well abandonment, continuous circulation systems, completion equipment, drill pipe and downhole tool rental, fishing services, and supervision and inspection.

RECOGNITION

National High-Tech Enterprise. National “Little Giant” specialized SME.

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