

	A375	A450
Tubing Stop		
OD (in.)	3.72	4.50
Length (ft)	1.57	1.57
Tubing Packoff		
OD (in.)	3.72	4.50
Length (ft)	2.83	2.88
Standing Valve		
OD (in.)	3.72	4.50
Length (ft)	1.32	2.00
Stinger		
OD (in.)	3.72	4.50
Length (ft)	0.88	1.00
PBR		
OD (in.)	3.72	4.50
Length (ft)	2.10	3.00
Pump and Intake (depending on application)		
OD (typical, in.)	3.75	4.50
Length (ft) ^{1,2}	varies	varies
Seal (Protector) (depending on application)		
OD (in.)	3.38 or 3.75	4.50
Length (typical, ft) ¹	6.50	6.50
Permanent Magnet Motor (PMM)		
OD (in.)	3.75	4.50
Horsepower (see PMM section)	130 to 400	400 to 1,200
Length (ft) ¹	hp dependent	hp dependent
Gauge		
OD (in.)	3.75	4.50
Length (ft)	2.50	3.00
Plug Arm Assembly		
OD (in.)	3.75	4.50
Length (ft)	11.83	12.50
Motor Guide		
OD (in.)	3.75	4.50
Length (ft)	0.50	0.50

Notes

1—Depends on well application

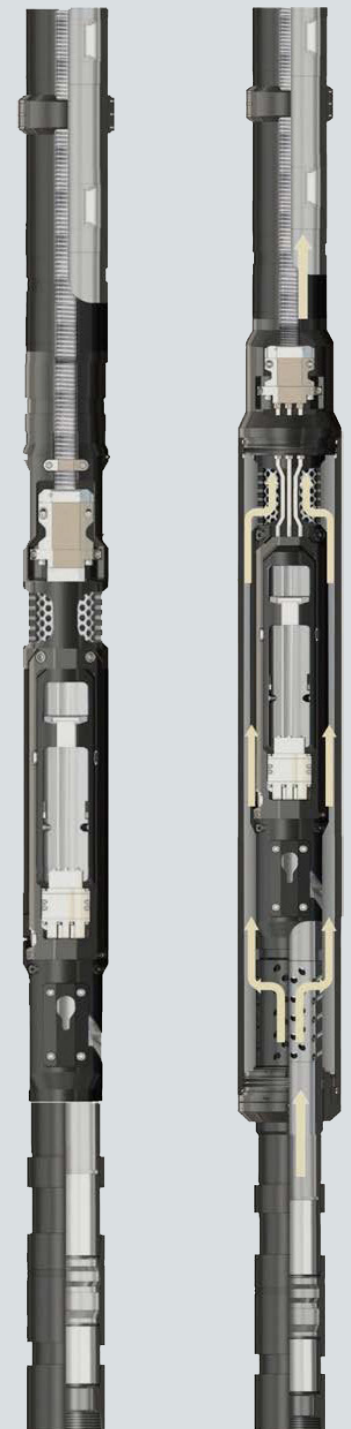
2—When casing sizes permit, larger tubing can be run allowing larger OD pumps, hence flow rate (estimated maximum range: 7,500 bbl/d with 4.5-in. tubing, 12,000 bbl/d with 5.5-in. tubing, 30,000 bbl/d with 7-in. tubing)



	A375	A450
Retrievable Assembly		
Pump size (nominal)	3.75 in.	4.50 in.
Conveyance options	Slickline, Braided Line, Coiled Tubing, Tractor	
Typical system length ¹	85 ft	85 ft
Typical system weight ¹	1,900 lbm	3,300 lbm
Typical deployment length ²	40 ft	40 ft
Typical deployment weight ²	1,000 lbm	1,500 lbm
Environmental Specifications		
Maximum winding operating temperature	400°F	400°F
Maximum work ambient temperature	350°F	350°F
Pressure	7,500 psi	7,500 psi
Performance		
Maximum horsepower	400 hp	1,200 hp
Maximum flow ^{3,4}	7,500 bbl/d	20,000 bbl/d
Annular Connection Port (ACP)		
Minimum tubing size	4.5 in.	5.5 in.
Minimum casing size	7 in.	8.625 in.
Length	8.5 ft	10 ft
Maximum OD	5.85 in.	6.50 in.
Throughbore diameter	3.83 in.	4.62 in.
Burst pressure with isolation sleeve ⁵	10,000 psi	10,000 psi
Collapse pressure with isolation sleeve ⁵	6,000 psi	6,000 psi
In-Line Connection Port (ICP)		
Minimum tubing size	4.5 in.	5.5 in.
Minimum casing size	9.625 in.	9.625 in.
Length	14 ft	18 ft
Maximum OD	7.63 in.	8.25 in.
Throughbore diameter	3.83 in.	4.62 in.
Burst pressure with isolation sleeve ⁵	7,000 psi	10,000 psi
Collapse pressure with isolation sleeve ⁵	7,000 psi	10,000 psi

Notes

- 1–Depends on well application
- 2–Excludes running tools (above length, estimated typical per run section)
- 3–Based on ESP pump design
- 4–When casing sizes permit, larger tubing can be run allowing larger OD pumps, hence flow rate (estimated maximum range: 7,500 bbl/d with 4.5-in. tubing, 12,000 bbl/d with 5.5-in. tubing, 30,000 bbl/d with 7-in. tubing)
- 5–Based on 80-kpsi material; higher ratings available upon request



Annular Connection Port (ACP)

In-line Connection Port (ICP)

	AccessESP PMM Motor		
	Power	Length (ft)	Weight (lbm)
A375 3.75 in. OD 4.5/5.5-in. tubing	130 hp	9.1	235
	250 hp	16.4	424
	400 hp	23.7	614
A450 4.5-in. OD 5.5-in. tubing and larger	400 hp	16.4	611
	600 hp	23.7	884
	800 hp	35.1	1,165
	1,200 hp	38.8	1,445

Conventional ESP Induction Motor	
Length (ft)	Weight (lbm)
51.2	1,980
84.0	3,400
Not Available	Not Available
55.6	1,4
70.6	3,770
Not Available	Not Available
Not Available	Not Available