

HDPE Flanges and Stub Ends

HDPE Stub Ends + Steel Backing Flanges

Product Overview

HDPE stub ends butt-fused to PE100 pipe combined with a loose steel backing flange to provide a mechanical, demountable connection to dissimilar materials — steel valves, pumps, instrumentation, ductile-iron hydrants, concrete-encased pipe. Bolt drilling matched to AWWA C207, ISO 7005-1 or ANSI B16.5 patterns depending on destination market.

Technical Specifications

Parameter	Specification
Stub-end material	PE100 (matches pipe grade)
Backing ring material	Carbon steel (zinc plated) · Stainless 304/316 · Hot-dip galvanised
Diameter range	DN 20 – DN 1200 mm
Pressure class	PN 10 / PN 16 / PN 25 (matches pipe SDR)
Flange drilling	AWWA C207 · ISO 7005-1 · ANSI B16.5 (specify at order)
Gasket recommendation	EPDM full-face for water; NBR for gas / oil; PTFE for chemicals
Joining	Butt-fused to pipe; bolted to mating flange
Disassembly	Bolt-out for valve / pump replacement

Typical Applications

- Connection to steel valves, pumps and instrumentation
- Connection to ductile-iron hydrant tees
- Connection to concrete-encased existing pipe
- Future-disassembly transitions for plant equipment
- End-of-line testing flanges (replaced with cap after commissioning)

Standards & Certifications

ISO 4427-3

AWWA C207

ISO 7005-1

ANSI B16.5

ISO 9001

Why Primepoly

Real factory, not a trading company. Primepoly operates a fully-owned PE / PVC pipe and fitting factory in Zhengzhou, Henan — ISO 9001 quality plan, in-house QC lab, full hydrostatic test and material qualification on every production batch.

Documentation that clears consultant review on first submission. Every shipment carries the mill certificate, batch resin certificate, third-party inspection report (SGS / BV available) and the destination-specific compliance documents (WRAS / NSF 61 / SASO / PVOC / etc.).

Engineering support on every order. Our application engineers respond to technical queries within one working day. For distributor and project customers we send installer training to site for the first shipment.

Request a quotation

Send DN / SDR / length / destination port to sales@primepolypipes.com — engineering team responds within one working day with FOB or CIF pricing.