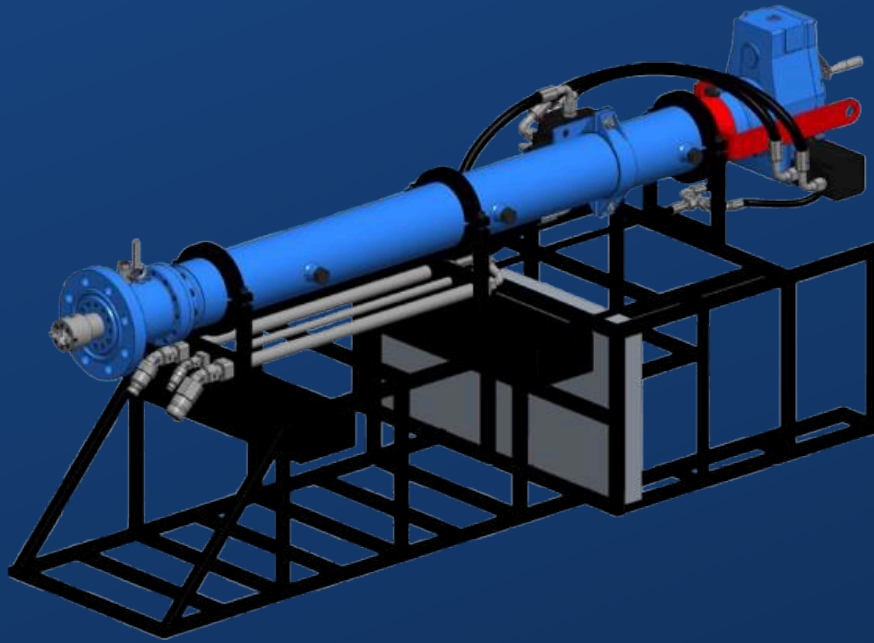


SUPPLY & SERVICES

Hot Tapping & Line Stopping

Live-line connections — no shutdown.



01

Hot Tapping

New branch connections on live lines,
½" to 36"

02

Line Stopping

Balloon (inflatable) and mechanical
stopping

03

Pipeline Intervention

Hot tap, bypass and line stop to isolate
live lines

04

Supply

Tapping machines, HPUs, drills, cutters,
valves

05

Services

Planning, execution, testing and close-
out

API 2201 • ASME PCC-2 • ASME B31.3 / B31.1

India • Bahrain • Dubai • KSA • Qatar

Sam Technical Service Contracting EST

Building No # 9324, Mughffal Ibn Sinan Street,
Al Naseem Dist., Rabigh, Saudi Arabia

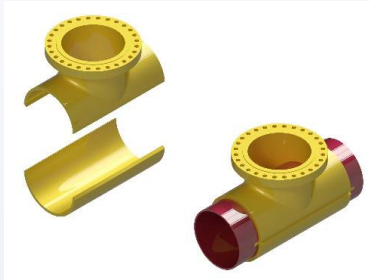
WhatsApp +966 507745097

Email samtech@powertechdevelopment.com

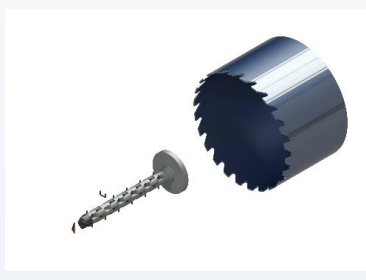
Website www.samtechsa.com

01 Hot Tapping

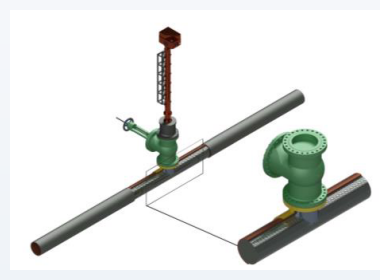
Hot tapping is the process of making a new opening or branch connection on a pressurized pipeline without stopping the flow. It allows maintenance or pipeline modifications while the pipeline remains in operation. A Hot tap fitting provides the connection point for the new branch, made using a hot tapping machine.



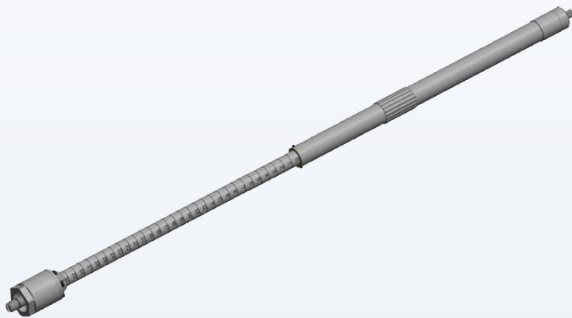
Hot tap Tee



Cutter & Pilot

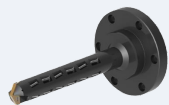


Hot tapping operation



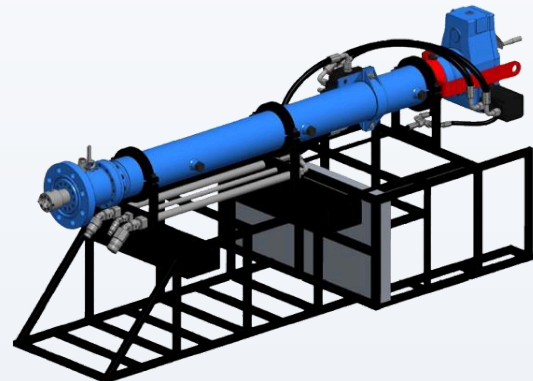
SAM-6-30 Manual / Pneumatic

Cutting range	1/2" to 6" (DN 15-150)
Boring bar travel	30" (762 mm)
Max. pressure	1480 PSI (102 Bar) @ 100°F
Max. temperature	700°F (371°C) at 700 psi*
Net weight	27 Kgs (approx.)



Pilot Drills 3"-48"

Replaceable spade inserts; threaded 3" & 4", flanged 6" and higher.



SAM-17-66 Hydraulic

Cutting range	4" to 16" (DN 100-400)
Boring bar travel	66" (1,676 mm)
Max. pressure	1480 PSI (102 Bar) @ 100°F
Housing mounting	4" Class 600 RTJ
Net weight	280 Kgs (approx.)



Hot Tap Cutters Ø2"-Ø96"

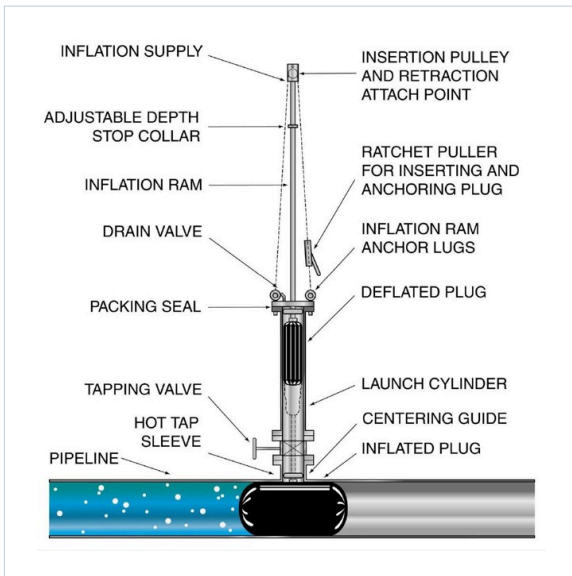
HSS or Tungsten Carbide teeth; compatible with several machine brands.

* For intermittent service only. Maximum continuous rating is 350°F (177°C) at 1,025 psi (70 bar).

02 Line Stopping

Line stop is a process used to temporarily stop the flow in a section of a live pipeline without shutting down the entire system. It allows safe maintenance, repair, or modification of the pipeline while the remaining system continues to operate.

A • Balloon (Inflatable) Stopping



- An inflatable plug is inserted through a small hot tap fitting and inflated against the pipe wall with air, water or inert gas.
- Conforms to abnormal pipe conditions; lighter equipment for limited-space work.
- Reusable plugs in ballistic nylon, Kevlar, Viton and more to suit pressure, chemicals and temperature.

B • Mechanical Stopping



A mechanical plugging head is inserted through the line stop fitting and sandwich valve, then driven into the pipe bore by the operating rod to stop the flow.

- **Operating Rod** drives the plug in and out of the pipeline.
- **Insertion Head** mounts on the line stop fitting (valve / bonnet).
- **Sealing Element** — rubber cups seal against the pipe wall.
- **Mechanical Plug Body** carries the seals and takes the line pressure.

03 Pipeline Intervention



Hot tapping, temporary bypass and line stopping combined to isolate a section of live pipeline — for repair, valve installation, replacement or rerouting with no interruption to flow.

- Hot tap fittings and bypass installed on the live line
- Line stops set upstream and downstream of the section
- Section cut out and repaired; line re-instated with completion plugs

04 Supply

Complete hot tapping and line stopping packages, with factory inspection, mock-up test and certificates.



Hot Tapping Machines

SAM-6-30 · ½"–6" manual / pneumatic
SAM-17-66 · 4"–16" hydraulic



Hydraulic Power Units

SAM-3-47-300 diesel HPU
47 HP · 300 L tank · spark arrester



Pilot Drills

SAM-PD series · 3"–48"
Threaded & flanged, spade inserts



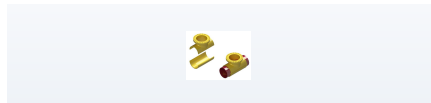
Hot Tap Cutters

SAM-HTC series · Ø2"–Ø96"
HSS or Tungsten Carbide teeth



Sandwich Valves

SAM-SW series · 3"–48"
Class 150# & 600# · tested 1.5× MWP



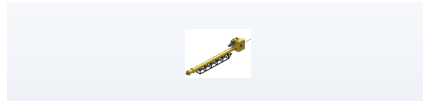
Hot Tap & Line Stop Tees

Split full-encirclement fittings
Flanged branch to suit valve rating



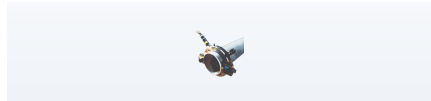
Inflatable Line Stop Plugs

Balloon stoppers & insertion systems
Nylon · Kevlar · Viton materials



Housings & Launching Barrels

Cutter housings, line stop cutters
Launching barrel · 2" RAM assembly



Cold Cutting Machines

Split-frame clamshell cutters
Flame-free cutting & bevelling

05 Services

01 Hot Tapping

Branch connections ½"–36" on live, pressurised lines

03 Bypass Installation

Temporary bypass keeps product flowing during isolation

05 Site Survey & UT Thickness

Wall thickness and weldability check before tapping

07 Fitting Welding

Qualified WPS / PQR and coded welders on live lines

09 Pressure Testing

Hydrostatic / pneumatic test of fitting and machine

02 Line Stopping

Balloon (inflatable) and mechanical plugging heads

04 Cold Cutting & Bevelling

Flame-free cutting where hot work is not allowed

06 Permits & Risk Assessment

JSA, hot work permit, gas testing, dedicated fire watch

08 NDT Inspection

VT, DPT, MT and UT of all attachment welds

10 Valve Testing & Close-out

Seat-leak test (API 598), leak checks, job records