

Nipolet® Branch Outlet Fittings

Integrally reinforced one-piece nipple outlets · Plain (bevel) end & threaded · NPS ½" to 2" · XS & XXS

PRODUCT DESCRIPTION

The Nipolet® is a forged, integrally reinforced one-piece branch outlet that combines an outlet base and a nipple in a single fitting. The contoured base is butt-welded to the run (header) pipe; the 3½" long nipple end is supplied plain (bevelled) for butt welding, or threaded to ASME B1.20.1.

By eliminating the separate outlet-plus-nipple assembly it removes one weld and one potential leak path, making it the preferred fitting for valve take-offs, drains, vents, instrument and sample connections on headers and vessels.

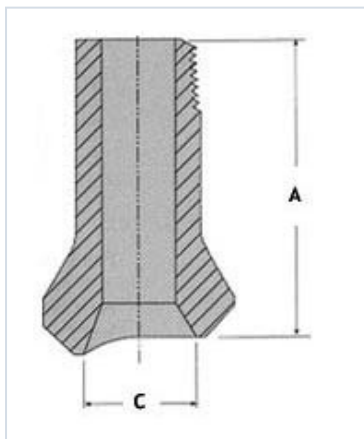
KEY FEATURES

- **One-piece design** — outlet and nipple forged as one; no nipple-to-outlet weld or thread joint.
- **Integral reinforcement** — meets branch reinforcement requirements of the piping code without pads.
- **Plain or threaded end** — bevelled for butt welding, or male NPT to ASME B1.20.1.
- **XS and XXS bores** to match Schedule 80 and Schedule 160 / XXS branch systems.
- **Standard 3½" length** gives clearance for valve installation and welding.

SPECIFICATION SUMMARY

Product	Nipolet® (Nipple Outlet) — one-piece 90° branch outlet with integral nipple
Design standard	MSS SP-97 — Integrally Reinforced Forged Branch Outlet Fittings
Thread (if threaded)	Male NPT taper pipe thread to ASME B1.20.1
End connections	Butt-weld to run pipe; plain (bevelled) or threaded nipple end
Size range	NPS ½" – 2" (DN 15 – DN 50)
Wall / bore	XS XXS
Overall length A	3½" (88.9 mm) standard; other lengths on request
Materials	Carbon steel, low-temperature carbon steel, alloy steel, stainless steel, duplex and nickel alloys — as specified
Testing & certification	Material test certificate; thread gauging; NDT (MPI / DPT / UT) and third-party inspection on request
Marking	Manufacturer, size, schedule, material grade, heat number

DIMENSIONAL DRAWING



A Overall length — outlet base to nipple end

C Bore diameter through the nipple

Selecting XS or XXS: the bore C matches the branch pipe schedule — XS for Schedule 80 systems, XXS for Schedule 160 / XXS systems. Outside diameter of the nipple matches the nominal pipe size.

- Catalogue dimensions are in inches; millimetre equivalents are given in brackets for convenience.
- Threaded version: male NPT on the nipple end; thread length per ASME B1.20.1. Plain-end version: bevelled for butt welding.

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Dimensions · Materials · Installation · Quality

DIMENSIONS — PLAIN END & THREADED, SCHEDULE XS & XXS

NIPOLET XS & XXS PLAIN END & THREADED					6 sizes
NPS inch	Schedule XS		Schedule XXS		
	A — Length inch (mm)	C — Bore inch (mm)	A — Length inch (mm)	C — Bore inch (mm)	
1/2	3 1/2 88.90	15/16 23.81	3 1/2 88.90	9/16 14.29	
3/4	3 1/2 88.90	1 3/16 30.16	3 1/2 88.90	3/4 19.05	
1	3 1/2 88.90	1 7/16 36.51	3 1/2 88.90	1 25.40	
1 1/4	3 1/2 88.90	1 3/4 44.45	3 1/2 88.90	1 5/16 33.34	
1 1/2	3 1/2 88.90	2 50.80	3 1/2 88.90	1 1/2 38.10	
2	3 1/2 88.90	2 9/16 65.09	3 1/2 88.90	1 11/16 42.86	

- All catalogue dimensions in inches; millimetre equivalents shown beneath each value (1" = 25.4 mm). Design per MSS SP-97; male threads per ASME B1.20.1.

TYPICAL MATERIAL GRADES

Carbon steel	ASTM A105 / A105N
Low-temperature CS	ASTM A350 LF2 Cl.1 / Cl.2
Alloy steel	ASTM A182 F11, F22, F5, F9, F91
Stainless steel	ASTM A182 F304/304L, F316/316L, F321, F347
Duplex / super duplex	ASTM A182 F51 (S31803 / S32205), F53, F55
Nickel & copper alloys	Inconel, Monel, Hastelloy, Cu-Ni 90/10 & 70/30 — on request

QUALITY & DOCUMENTATION

- Manufactured under an ISO-certified quality management system.
- Material test certificates with full heat-number traceability.
- Dimensional inspection report to MSS SP-97; threads gauged to ASME B1.20.1.
- Optional NDT (MPI / DPT / UT) and third-party or customer witness inspection on request.

INSTALLATION GUIDANCE

- Run-pipe weld:** cut the hole in the run pipe, fit the contoured base with a root gap and complete the full-penetration butt weld.
- Plain end:** butt-weld directly to the mating pipe, valve or fitting of the same schedule.
- Threaded end:** protect the thread during welding; make up with sealant or PTFE tape, hand-tight plus 1½ – 3 turns; seal-weld where required.

ORDERING & RELATED PRODUCTS

Ordering information: specify run-pipe size & schedule, nipple size (½" – 2"), schedule (XS / XXS), end type (plain-bevel / threaded NPT), material grade, quantity and any testing or certification requirements.

Weldolet	Sockolet	Thredolet	Elbolet
Latrolet	Sweepolet	Flanges	Forged fittings