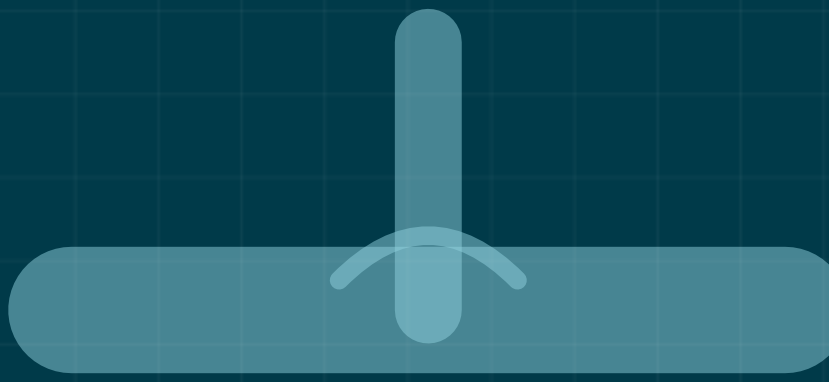
PRODUCT DATA SHEET

FLANGES · BRANCH OUTLETS · 15

Weldolets

Forged, integrally-reinforced branch-outlet fittings for reinforced take-offs from a run pipe — to MSS SP-97. Butt-weld, socket-weld and threaded outlets, plus 45°, elbow and nipple variants.

WELDOLET | SOCKOLET | THREADOLET



½–48″ run	½–24″ branch	A105 forged	MSS SP-97 standard
RUN SIZE	BRANCH SIZE	CORE GRADE	OUTLET STD

Weldolets

– 01 / SPECIFICATION

BRANCH OUTLET CONSTRUCTION

Forged branch outlet — MSS SP-97

Run (header)	NPS ½"–48"
Branch (outlet)	NPS ½"–24"
Wall / rating	STD · XS · SCH 160 · XXS (matched to run)
Reinforcement	Integrally reinforced, contoured base
Ends	Bevel to ASME B16.9 / B16.25

Outlet types — TYPES

Weldolet	Butt-weld (BW) branch
Sockolet · Thredolet	Socket-weld / threaded branch
Elbolet · Latrolet	On elbow · 45° lateral
Nipolet · Sweepolet	Nipple outlet · low-SIF contoured

APPLICATIONS

- Reinforced branch take-offs on mains
- Instrument, drain & vent connections
- Oil, gas & petrochemical piping
- Power & process plant headers
- Where a tee is not size-available

Weldolets — schematic (not to scale)

MATERIAL GRADES

Standard	Grades
ASTM A105	Forged carbon steel
ASTM A182	F304/316 · F11 · F22 (alloy/SS)
ASTM A350 LF2	Low-temperature carbon
Combinations	XS×3000# · SCH160×6000# · XXS×9000#

HOW TO ORDER

1 · Product	Weldolet / Sockolet / Threadolet
2 · Run × branch	e.g. 8" × 2"
3 · Outlet type	BW / SW / THD
4 · Wall	matched to run · e.g. STD
5 · Grade	ASTM A105
6 · Cert	EN 10204 3.1

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WELDOLET · 8" × 2"
MSS SP-97 · BW · STD×STD
ASTM A105 forged
MTC EN 10204 3.1
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STANDARDS & FACING

MSS SP-97 · ASTM A105 · ASTM A182 · ASTM A350 LF2 · ASME B16.9/B16.25 · ASME B16.11 · EN 10204 3.1 · ISO 9001:2015

Weldolet Dimensions

— 02 / SIZE-ON-SIZE STD

MSS SP-97 · SIZE-ON-SIZE · STANDARD WEIGHT — DIMENSIONS IN MM

NPS	A · height	B · base Ø	C · run Ø	D · bore
½″	19.05	34.93	23.81	15.88
¾″	22.23	41.28	30.16	20.64
1″	26.99	50.8	36.51	26.19
1¼″	31.75	60.3	44.45	34.93
1½″	33.34	73	50.8	41.28
2″	38.1	88.9	65.09	52.39
2½″	41.28	103.19	76.2	61.91
3″	44.45	122.24	93.66	77.79
3½″	50.8	136.53	98.43	90.49
4″	50.8	152.4	120.65	101.6

NPS	A · height	B · base Ø	C · run Ø	D · bore
5″	57.15	180.98	141.29	128.59
6″	60.3	215.9	169.86	153.99
8″	69.85	263.53	220.66	201.61
10″	77.79	319.09	274.64	254
12″	85.73	377.83	325.44	304.8
14″	88.9	409.58	357.19	336.55
16″	93.66	463.55	407.99	387.35
18″	103.19	527.05	473.08	438.15
20″	117.48	585.79	509.59	488.95
24″	136.53	708.03	638.18	590.55

A = height of Weldolet · **B** = base diameter (run-side contour) · **C** = outside diameter at outlet · **D** = bore. **L** = centreline of run + X (root gap) + A. Root gap X set with spacers for a uniform weld gap. Bevelled ends to ASME B16.9 / B16.25. Dimensions per MSS SP-97 (reference: Bonney Forge size-on-size STD). Reducing & heavier walls (XS · SCH 160 · XXS) and other outlet types available — confirm on the approval drawing.