



LADISH CO.

Cudahy,
Wisconsin

Complete service in Controlled Quality pipe fittings regardless of size, type, wall thickness, pressure rating or material specifications.

TO MARK PROGRESS

DISTRICT OFFICES: Atlanta, Buffalo, Chicago, Cleveland, Denver, Havana, Houston, Los Angeles, Mexico City, New York, Odessa, Philadelphia, Pittsburgh, St. Louis, St. Paul, San Francisco, Seattle, Tulsa.

BRANCH PLANTS: Los Angeles, California—Brantford, Ontario, Canada—Kenosha, Wisconsin

Standardizing on Ladish assures unrestricted selection in meeting your entire fittings requirements . . . for the Ladish fittings line is complete in types, sizes, pressure ratings and materials, including carbon, alloy and stainless steels, aluminum, brass and other non-ferrous alloys. All Ladish fittings are produced under rigid metallurgical and manufacturing controls.

BUTT WELDING FITTINGS

½ in. through 42 in. Schedule 5 through Double Extra Strong and special heavy wall thickness up to 4 inches. All fittings carry permanent heat code identification.

ASA AND MSS FLANGES

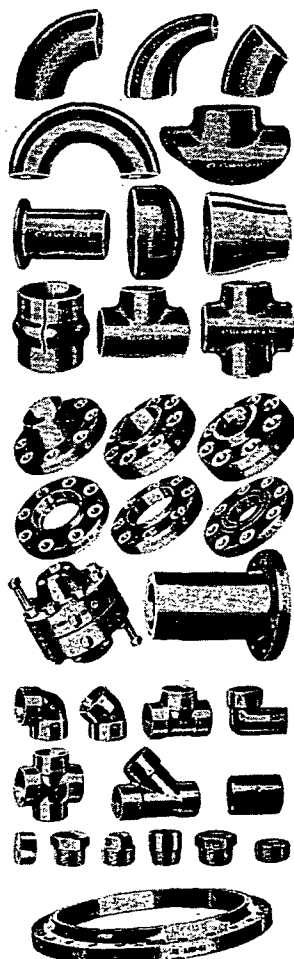
ASA Flanges ½ in. through 24 in. 150 lb through 2500 lb ratings. MSS 150 lb Flanges ½ in. through 12 in. Large O.D. Flanges in sizes up to 20 ft diameter. Forged under exacting metallurgical controls, accurately machined to full dimensions.

SCREWED AND SOCKET WELDING FITTINGS

Forged Steel Fittings ½ in. through 4 in. 2000 lbs through 6000 lbs. Wide reinforcing bands provide ample wrench grip surface and extra strength at stress points. Sharp, clean threads of Ladish Screwed Fittings assure tight, leak-proof joints. Socket Welding Fittings have deep, true welding sockets to assure proper alignment and slip fit. 150 LB STAINLESS STEEL SCREWED FITTINGS are also available in a complete range of sizes.

PRODUCED IN ANY FORGEABLE MATERIAL

Carbon Steels	Carbon-Molybdenum Steels
Stainless Steels	Chromium-Nickel Steels
Alloy Steels	Chromium-Molybdenum Steels
Inconel	Aluminum
Monel	Forging Brass
Titanium	Nickel-Copper Alloys
Nickel Steels	Aluminum-Manganese Alloys



LADISH 304 PAGE CATALOG NO. 55
SENT ON REQUEST

The Robvon Backing Ring Co.

675 Garden Street

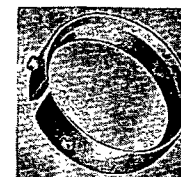
Elizabeth 2, New Jersey

Robvon Backing Rings for Welding Pipe, Valve and Fitting Joints



ROBVON Type "CCC"

ROBVON BACKING RING TYPE "CCC." This RING is designed for application where variation inside diameters is relatively great. Extra-long chamfered NUBS maintain the established root opening under the most adverse fit-up. The easy "STRIKE OFF" feature of the "CCC NUBS" permits each to be removed with a light tap of a hammer. Normal welding currents may be used when the NUBS have been removed.



ROBVON Type "CC"

ROBVON TYPE "CC" is inserted into beveled end of pipe with the split end of the ring placed at the bottom of the pipe and the spacer NUBS flush against the land of the pipe.

The beveled end of adjoining pipe is slipped onto the backing ring until the edge of pipe bevel is firmly abutted against the spacer NUB. Diameter of NUB automatically sets the root opening for the electrode.

The welder has the choice of "STRIKING OFF" the NUBS or leaving them intact. If the NUBS are not chipped off, a higher welding current will insure full penetration and fusion of the spacer NUB.



ROBVON Type "C"

ROBVON TYPE "C." The fit-up procedure is the same as outlined above. The non-removable NUB is readily and completely fused during welding by using a slightly higher than normal welding current.

MACHINED rings are manufactured to specification in either the solid or split type design.

All **ROBVON** Rings are available in carbon steel, wrought iron, alloys, stainless steel, aluminum, etc.



Machined Ring

SPECIFICATIONS

Nom. Pipe Size	I.D. of Pipe		No. of Root Opening Spacers		Dia. of Spcr.	Ring Thickness	Ring Width	Width of Land
	Std. Inches	X Hvy. Inches	Type C	Type CC & CCC				
¾"	.824	.742	3	3	¾"	¾"	¾"	¾"
1"	1.049	.957	3	3	1"	1"	1"	1"
1¼"	1.380	1.278	3	3	1¼"	1¼"	1¼"	1¼"
1½"	1.610	1.500	3	3	1½"	1½"	1½"	1½"
2"	2.067	1.939	3	3	2"	2"	2"	2"
2½"	2.469	2.323	3	3	2½"	2½"	2½"	2½"
3"	3.068	2.900	3	3	3"	3"	3"	3"
3½"	3.548	3.364	3	3	3½"	3½"	3½"	3½"
4"	4.026	3.826	4	3	4"	4"	4"	4"
5"	5.047	4.813	5	4	5"	5"	5"	5"
6"	6.065	5.781	5	4	6"	6"	6"	6"
8"	7.981	7.625	6	4	8"	8"	8"	8"
10"	10.020	9.750	9	4	10"	10"	10"	10"
12"	12.000	11.750	9	5	12"	12"	12"	12"
14"	13.250	13.000	9	5	14"	14"	14"	14"
16"	15.250	15.000	12	5	16"	16"	16"	16"
18"	17.250	17.000	12	6	18"	18"	18"	18"
20"	19.250	19.000	12	6	20"	20"	20"	20"
24"	23.250	23.000	15	6	24"	24"	24"	24"
30"	29.250	29.000	18	6	30"	30"	30"	30"
36"	35.250	35.000	21	6	36"	36"	36"	36"
40"	39.250	39.000	21	6	40"	40"	40"	40"