



LADISH VALVES

Design, Engineering and Manufacturing in the USA.



Gate Valves

- Cast & forged construction
- Industry specifications: API 600, API 602, API 603 & ASME B16.34
- Size range: 1/2" – 36"
- Pressure class: 150, 300, 600, 800, 900, 1500, 2500 & 4500
- Port: standard & full
- Construction: bolted, welded & pressure seal
- End connection: RF, RTJ, BWE, THD & SWE
- Catalog 821

Globe Valves

- Cast & Forged Construction
- Industry specifications: API 623, API 602 & ASME B16.34
- Size range: 1/2"–16"
- Pressure class: 150, 300, 600, 800, 900, 1500, 2500 & 4500
- Port: Standard & Full
- T-pattern & Y-pattern available
- Construction: Bolted, Welded & Pressure Seal & Bonnetless
- End connection: RF, RTJ, BWE, THD & SWE
- Catalog 821

Check Valves

- Cast & forged construction
- Stop check & angle valves available
- Industry specifications: API 594, API 602 & ASME B16.34
- Piston check & swing check available
- Size range: 1/2" – 36"
- Pressure class: 150, 300, 600, 800, 900, 1500, 2500 & 4500
- Port: standard & full
- T-pattern & Y-pattern available
- Construction: bolted, welded & pressure seal
- End connection: RF, RTJ, BWE, THD & SWE
- Catalog 821

Floating Ball Valves

- Cast and forged construction available
- Industry specifications: API 608, API 607, ASME B16.34, ISO 15848-1 and ASME B31.3 Category M
- Size range: 1/2" - 16"
- Pressure class: CI 150, 300, 600, 800, 900 & 1500 "soft" and Metal Seated. CI 2500 – 4500 (Metal Seated Only)
- Port: standard & full
- Construction: 2-piece split & unibody design, 3-piece API 608, soft seated, metal seated and graphite seated
- End connection: RF, RTJ, BWE, THD & SWE
- Catalogs: Catalog 401, 411, 431, 441, 461, 471 and G2 Series

Cryogenic Valves

- Cast & forged construction
- Industry specifications: MSS SP-134, ASME B16.34, and ISO 21011
- Gate, globe, check & ball valves
- Size range: 1/2" – 36"
- Pressure class: 150, 300, 600, 800, 900, 1500 & 2500
- Port: standard & full
- End connection: RF, RTJ, BWE, THD & SWE
- Integral cast extensions available on select sizes
- Catalog 321

Engineered Valves & In-House Services

- Fully engineered valves per customer specifications
- Clean room to prepare valves for multiple applications
- Fugitive Emissions Testing: API 624, API 641, and ISO 15848-1 and -2
- RT/Radiographic Testing
- Liquid Dye Penetrate Testing
- Inert Gas Testing
- Finite Element Analysis available on request
- Other NDE including Ferrite and hardness testing and PMI available
- Cryogenic Testing

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Material Reference



Common	Elements	Castings		Forging		Bar	
		ASTM	UNS	ASTM	UNS	ASTM	UNS
303	18Cr – 9Ni – 1.5Mn	A743 CF16Fa	J92701	A473-303	S30300	A276-303	S30300
304	18Cr – 8Ni	A351 CF8	J92600	A182-F304	S30400	A276-304	S30400
309	23Cr – 13.5Ni	A351 CH20	J93402	A182-F309H	S30909	A276-309	S30900
310	25Cr – 20Ni	A351 CK20	J94202	A182-F310	S31008	A276-310S	S31008
316	18Cr – 8Ni – 2Mo	A351 CF8M	J92900	A182-F316	S31600	A276-316	S31600
317	19Cr – 13Ni – 3.5Mo	A351 CG8M	J93000	A182-F317	S31700	A276-317	S31700
321	18Cr – 8Ni – Ti	N/A	N/A	A182-F321	S32100	A276-321	S32100
347	18Cr – 8Ni – Nb	A351 CF8C	J92710	A182-F347	S34700	A276-347	S34700
410	13Cr – .5Mo – 86Fe	A217 CA15	J91150	A182-F6A	S41000	A276-410	S41000
254-SMO	20Cr – 18Ni – 6Mo	A351 CK3MCUN	J93254	A182-F44	S31254	A276-S31254	S31254
304H	18Cr – 8Ni – .10C (max)	A351 CF10	J92590	A182-F304H	S30409	A479-304H	S30409
304L	18Cr – 8Ni – .03C (max)	A351 CF3	J92700	A182-F304L	S30403	A276-304L	S30403
316H	18Cr – 8Ni – 2Mo – .10C (max)	A351 CF10M	J92901	A182-F316H	S31609	A479-316H	S31609
316L	18Cr – 8Ni – 2Mo – .03C (max)	A351 CF3M	J92800	A182-F316L	S31603	A276-316L	S31603
317L	19Cr – 13Ni – 3.5Mo – .03C (max)	A351 CG3M	J92999	A182-F317L	S31703	A276-317L	S31703
321H	18Cr – 8Ni – Ti – .10C (max)	N/A	N/A	A182-321H	S32109	A276-321H	S32109
347H	18Cr – 8Ni – Nb – .10C (max)	N/A	N/A	A182-F347H	S34709	A276-347H	S34709
AL6XN	21Cr – 25Ni – 6.5Mo – Cu – N	A351 CN3MN	J94651	A182-F62	N08367	B462-N08367	N08367
Alloy 20	20Cr – 35Ni – 2.5Mo – 3.5Cu	A351/744 CN7M	N08007	A182-F20	N08020	B473-N08020	N08020
Alloy 20 (Low Carbon)	20Cr – 35Ni – 2.5Mo – 3.0Cu	A990 CN3MCu	N/A	N/A	N/A	N/A	N/A
Ferrallium 255	26Cr – 6Ni – 3.5Mo – Cu – N	A995 Gr. 1B CD4MCuN	J93372	A182-F61	S32550	A479-S32550	S32550
Duplex 2205	22Cr – 5.5Ni – 3Mo – N	A995 Gr. 4A CD3MN	J92205	A182-F51	S31803	A276-S32205	S32205
Super Duplex 2507	25Cr – 7Ni – 4Mo – N	A995 Gr. 5A CE3MN	J93404	A182-F53	S32750	A479-S32750	S32750
Super Duplex Zeron	25Cr – 7Ni – 3.5Mo – N	A995 Gr. 6A CD3MWCuN	J93380	A182-F55	S32760	A479-S32760	S32760
Hastelloy B	67Ni – 28Mo – 5Fe	A494 N12MV	N30012	N/A	N/A	B335-N10001	N10001
Hastelloy B2	68Ni – 31Mo – 1Fe	A494 N7M	N30007	B564-N10665	N10665	B335-N10665	N10665
Hastelloy C (Mod)	54Ni – 20Cr – 20Mo – 3Fe	A494 CW6M	N30107	N/A	N/A	N/A	N/A
Hastelloy C22	58Ni – 21Cr – 14Mo – 4Fe – 3W	A494 CX2MW	N26022	B564-N06022	N06022	B574-N06022	N06022
Hastelloy C276	58Ni – 16Cr – 16Mo – 6Fe – 4W	A494 CW12MW	N30002	B564-N10276	N10276	B574-N10276	N10276
Hastelloy C4	62Ni – 16Cr – 16Mo – 2Fe	A494 CW2M	N26455	N/A	N/A	B574-N06455	N06455
Incoloy 800	33Ni – 20Cr – 45Fe – Nb	A351 CT15C	N08151	B564-N08800	N08800	B408-N08800	N08800
Inconel 600	78Ni – 15Cr – 5Fe	A494 CY40	N06040	B564-N06600	N06600	B166-N06600	N06600
Inconel 625	65Ni – 22Cr – 9Mo – 3.5Nb	A494 CW6MC	N26625	B564-N06625	N06625	B446-N06625	N06625
Inconel 825	43Ni – 22Cr – 3Mo – 30Fe – Nb	A494 CU5MCuC	N08826	B564-N08825	N08825	B425-N08825	N08825
Monel (Weldable)	64Ni – 30Cu – 2Cb – 3.5Fe	A494 M30-C	N24130	N/A	N/A	N/A	N/A
Monel 400	67Ni – 30Cu	A494 M35-1	N24135	B564-N04400	N04400	B164-N04400	N04400
Monel K500	65Ni – 29.5Cu – 2.8Al – 1Fe	N/A	N/A	B564-N05500	N05500	B865-N05500	N05500
Nickel 200	97Ni	A494 CZ100	N02100	B160-N02200	N02200	B160-N02200	N02200
Titanium	.10C – .30Fe – .05N – 99Ti	B367 Gr. C-3	R50550	B381 Gr. F-3	R50550	B348 Gr. 3	R50550
Titanium	.10C – .30Fe – .03N – .25Pd – 99Ti	B367 Gr. C-7	R52400	B381 Gr. F-7	R52400	B348 Gr. 7	R52400
Titanium	.10C – .30Fe – .03N – 99Ti	B367 Gr. C-2	R50400	B381 Gr. F-2	R50400	B348 Gr. 2	R50400
Zirconium	95Zr – 4.5Cu	B752 Gr. 702C	R60702	B493 Gr. 702	R60702	B550 Gr. 702	R60702