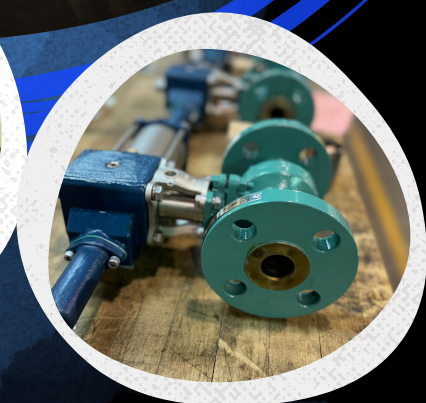




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About Our Company

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Our Brands



World-Class Service & Design Synergy

Ball, Check, Forged Gate, and Globe Valve Offering

Material	Size & Standards	End Connections	Certifications
A105 , LF2, F304L, F304H, F316L, F316H, F317L, F321SS, F347SS, F5, F9, F11, F22, F91, F51 Monel A20 Hastelloy C F410 SS Inconel 625	1/4"-3" ASME CLASS #150 - #2680	THD / SW / RF / RTJ / WE / RFXWE	API 602 API 603 API 607 FIRESAFE NACE

Ball, Cast Gate, Check, and Globe Valve Offering

Material	Size & Standards	End Connections	Certifications
A105 , LF2, F304L, F304H, F316L, F316H, F317L, F321SS, F347SS, F5, F9, F11, F22, F91, F51 Monel A20 Hastelloy C F410ss Inconel 625	2" -36" ASME CLASS #150 - #2680	RF / RTJ / WE / RFXWE	API 602 API 603 API 607 FIRESAFE NACE

Floating Ball Valve Offering

Material	Size & Standards	End Connections	Certifications
A105 , LF2, F304L, F304H, F316L, F316H, F317L, F321SS, F347SS, F5, F9, F11, F22, F91, F51 Monel A20 Hastelloy C F410ss Inconel 626	1/2"-12" ASME CLASS #150 - #2680	THD / SW / RF / RTJ	API 602 API 603 API 607 FIRESAFE NACE

API 6D Trunnion Mounted Ball, Exp Gate, Needle, Piston Check, Plug, Slab Gate, and Swing Valve Offering

Material X Trim	Size	End Connections	Certifications
CS X ENP CS X SS LF2 X ENP LCC X SS SSX SS DUPLEX X F51 NACE	2"-36" ASME CLASS #600 - #5000	THD / SW / THDxSW/ RF / RTJ	API 6D API 6A

Butterfly Valve Offering

Material and Trim Options	Size	End Connections	Types & Certifications
Cast/Ductil Iron Carbon Steel Stainless Steel Trim Options: AL BRZ, CS, SS, TFE	2" -48" ASME Class #150 - #600	Wafer / Lug / Double Flanged	Resilient High Performance Triple Offset AWWA API609 Firesafe

Control Valve Offering

Typical Use	Size	End Connections	Certifications
Rotary Linear Globe Butterfly Ball TMBV	2"-36" ASME CLASS #150 - #1500	RF / RTJ / WE / RFXWE, Wafer	API 3000- 10000

World-Class Service & Design Synergy

Valve Actuation and Automation

Types	Overrides	Valve Actuation & Automation	Size
- Pneumatic - Electric - Direct Gas - Gas-Hydraulic - Hydraulic	- Manual - Pneumatic - Hydraulic	- Solenoid Valves & Accessories - Filters & Regulators - Limit Switches & Positioners - Compression Fittings	2" -36" Handwheels

Specialty Pipe and Tubular Goods –Welded and Seamless

Materials	Grades /Specifications	End connection	Sizes
STAINLESS STEEL, SPECIAL ALLOY: Seamless, Welded	ASTM 312, 304/304L, 316/316L Alloy C276, Nickel 200/201, Alloy 400, Nickel 600/601, Alloy 625, Alloy 800H/HT, Alloy 825	All Schedules	Seamless: 1/8 to 24" Welded: 1/8 to 36"
CARBON STEEL: Seamless, Electric Resistance Weld (ERW) Spiral Weld (HSAW), Longitudinal Weld (LSAW)	ASTM/ASME A/SA106, ASTM/ASME A/SA53, API 5L, API5L Grade B /X42/X52/X60/X65, PSL- 1,PSL-2	All Schedules	Seamless: 1/8 to 24" ERW: 1/8 to 36" HSAW: 24 to 108" LSAW: 24 to 60"

Buttweld Pipe Fittings –Welded and Seamless

Materials	Grades /Specifications	End connection	Sizes
Stainless Steel, Special Alloy, Carbon Steel	ASTM A312, ASTM A234, ASTM A860 / MSS SP 75 Grades: 304/304L, 316/316L, Alloy C276, Nickel 200/201, Alloy 400, Nickel 600/601, Alloy 625, Alloy 800H/HT, Alloy 825, WPB, WPHY42, WPHY52, WPHY60, WPHY65, WPHY70, WP91, WP22, WP5, WP11, WP9	All Schedules	SMLS: ½ to 24" Welded: 1/2 to 36"

Forged Fittings

Materials	Grades /Specifications	End connection	Sizes
Stainless Steel, Special Alloy, Carbon Steel	ASTM A182, ASTM A335, ASTM A105, A694 / MSS SP 44, ASTM/ASME, MSS SP-97, MSS SP-95 Grades: 304/304L, 316/316L Alloy C276, Nickel 200/201, Alloy 400, Nickel 600/601, Alloy 625, Alloy 800H/HT Alloy 825, A105, A350 LF2, F5, F9, F11, F22, F91	THD/SW/TH DxSW	1/8 to 6" #150, #3000, #6000

Flanges

Materials	Grades /Specifications	End connection	Sizes
Stainless Steel, Special Alloy, Carbon Steel	ASTM A182, ASTM A335, ASTM A105, A694 / MSS SP 44, ASTM/ASME, MSS SP-97, MSS SP-95 Grades: 304/304L, 316/316L Alloy C276, Nickel 200/201, Alloy 400, Nickel 600/601, Alloy 625, Alloy 800H/HT, Alloy 825, A105, A350 LF2, F5, F9, F11, F22, F91	Weld Neck, Slip-On, Blind, Lap Joint, Threaded, Socket Weld, Reducing Flanges Orifice Flanges Available in: Raised Face, Ring Type Joint, Flat Face	½ to 36"

Steel Pipe Walls Thickness & Weights

Ledger: Wall Thickness in inches - BLUE
Weight per foot in pounds - BLACK

PIPE SIZE	O.D. (inches)	5	10s	10	20	30	40	STD.	60	80	XH	100	120	140	160	XXH
1/8	0.405	.035 1383	.049 1383	.049 1863			.068 2447	.068 2447		.095 3145	.095 3145					
1/4	0.54	.049 2570	.065 3297	.065 3297			.088 4248	.088 4248		.119 5351	.119 5351					
3/8	0.675	.049 3276	.065 4235	.065 4235			.091 5675	.091 5675		.126 7388	.126 7388					
1/2	0.84	.065 5383	.083 6710	.083 6710			.109 8510	.109 8510		.147 1088	.147 1088				.187 1304	.294 1714
3/4	1.05	.065 6838	.083 8572	.083 8572			.113 1131	.113 1131		.154 1474	.154 1474				.218 1937	.308 2441
1	1.315	.065 8678	.109 1404	.109 1404			.133 1679	.133 1679		.179 2172	.179 2172				.250 2844	.358 3659
1-1/4	1.66	.065 1107	.109 1806	.109 1806			.140 2273	.140 2273		.191 2997	.191 2997				.250 3765	.382 5214
1-1/2	1.9	.065 1274	.109 2085	.109 2085			.145 2718	.145 2718		.200 3631	.200 3631				.281 4859	.400 6408
2	2.375	.065 1604	.109 2638	.109 2638			.154 3653	.154 3653		.218 5022	.218 5022				.343 7444	.436 9029
2-1/2	2.875	.083 2475	.120 3531	.120 3531			.203 5793	.203 5793		.276 7661	.276 7661				.375 1001	.552 1370
3	3.5	.083 3029	.120 4332	.120 4332			.216 7576	.216 7576		.300 1025	.300 1025				.437 1431	.600 1858
3-1/2	4.0	.083 3472	.120 4937	.120 4937			.226 9109	.226 9109		.318 1251	.318 1251					.636 2285
4	4.5	.083 3915	.120 5613	.120 5613			.237 1079	.237 1079	.281 1266	.337 1498	.337 1498		.437 1901		.531 2251	.674 2754
5	5.563	.109 6349	.134 7770	.134 7770			.258 1462	.258 1462		.375 2078	.375 2078		.500 2704		.625 3296	.750 3855
6	6.625	.109 7585	.134 9289	.134 9289			.280 1897	.280 1897		.432 2857	.432 2857		.562 3639		.718 4530	.864 5316
8	8.625	.109 9914	.148 1340	.148 1340	.250 2236	.277 2470	.322 2855	.322 2855	.406 3564	.500 4339	.500 4339	.593 5087	.718 6063	.812 6776	.906 7469	.875 7242
9	9.625						.342 3390				.500 4872					
10	10.75	.134 1519	.165 1865	.165 1870	.250 2804	.307 3424	.365 4048	.365 4048	.500 5474	.593 6433	.500 5474	.718 7693	.843 8920	1.000 104.0	1.125 115.7	
12	12.75	.165 2218	.180 2416	.180 2420	.250 3338	.330 4377	.406 5333	.375 4956	.562 7316	.688 8851	.500 6542	.843 107.2	1.000 125.5	1.125 139.7	1.312 160.3	
14	14.0		.188 2773	.250 3671	.312 4568	.375 5457	.437 6337	.375 5457	.593 8491	.750 106.1	.500 7209	.937 130.6	1.093 150.7	1.250 170.2	1.406 189.1	
16	16.0		.188 3175	.250 4205	.312 5236	.375 6258	.437 8277	.375 6258	.656 2075	.844 136.5	.500 8277	1.031 164.8	1.218 192.3	1.437 223.5	1.593 245.1	
18	18.0		.188 3575	.250 4739	.312 5903	.437 8206	.562 1048	.375 7059	.750 138.2	.937 170.8	.500 93.45	1.156 208.0	1.375 244.1	1.562 274.2	1.781 308.5	
20	20.0		.218 4605	.250 5273	.375 7860	.500 140.1	.593 122.9	.375 78.60	.812 166.4	1.031 208.9	.500 104.1	1.280 256.1	1.500 296.4	1.750 341.1	1.968 379.0	
22	22.0			.250 5807	.375 86.61	.500 114.8		.375 86.61	.875 197.4	1.135 350.8	.500 114.8	1.375 277.0	1.625 352.6	1.875 403.0	2.125 451.1	
24	24.0		.250 63.41	.250 63.41	.375 94.62	.562 140.8	.687 171.2	.375 94.62	.968 238.1	1.218 296.4	.500 125.5	1.531 367.4	1.812 429.4	2.062 483.1	2.343 541.9	
26	26.0			.312 85.60	.500 136.2			.375 102.6			.500 136.2					
28	28.0			.312 92.26	.500 146.8	.625 182.7		.375 110.6			.500 146.8					
30	30.0		.312 98.93	.312 98.93	.500 157.5	.625 196.1		.375 118.6			.500 157.5					
32	32.0			.312 105.6	.500 168.2	.625 209.4	.688 230.1	.375 126.7			.500 168.2					
34	34.0			.344 123.7	.500 178.9	.625 222.8	.688 244.8	.375 134.7			.500 178.9					
36	36.0			.312 118.9	.500 189.6	.625 236.1	.750 282.3	.375 142.7			.500 189.6					
42	42.0							.375 166.7			.500 221.6					
48	48.0							.375 190.7			.500 253.6					

Resources

TrimMaterial	Seat	Disk	Backseat	Stem	Notes
1	410	410	410	410	
2	304	304	304	304	
3	F310	310	310	310	
4	Hard 410	Hard 410	Hard 410	410	Seats 750BHN Min.
5	Hardfaced	Stellite	Stellite	410	410
5A	Hardfaced	Ni-Cr	Ni-Cr	410	410
6	410 & Cu-Ni	Cu-Ni	410	410	410
7	410 & Hard 410	Hard 410	410	410	Seats 750BHN Min.
8	410 & Hardfaced	Stellite	410	410	410
8A	411 & Hardfaced	Ni-Cr	410	410	410
9	Monel	Monel	Monel	Monel	Monel
10	316	316	316	316	316
11	Monel & Hardfaced	Stellite	Monel	Monel	Monel
12	316 & Hardfaced	Stellite	316	316	316
13	Alloy 20	Alloy 20	Alloy 20	Alloy 20	Alloy 20
14	Alloy 20 & Hardfaced	Stellite	Alloy 20	Alloy 20	Alloy 20
15	304 & Hardfaced	Stellite	Stellite	304	304
16	316 & Hardfaced	Stellite	Stellite	316	316
17	347 & Hardfaced	Stellite	Stellite	347	347
18	Alloy 20 & Hardfaced	Stellite	Stellite	Alloy 20	Alloy 20

ASTM Material Cross Reference Forging Casting	
A105	WCB
LF2	LCC
F11	WC6
A182-F22	WC9
A182-F5	C5
A182-F9	C12
F304	CF8
F304L	CF3
F316	CF8M
F316L	CF3M
F317	CG8M
F347H	CF8C
Alloy 20	CN7M
Duplex 2205	CD3MN
Hastelloy C	CW12MW
Monel 400	M35-1
Inconel 600	CY40-1
Nickel 200	CZ100
Inconel 625	CW6MC
Incoloy 825	CU5MCUC

Data provided on this chart is strictly informational. Please consult the latest API and ASME official publications to cross-reference data.



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