



Valve | 48

V A L V E S , F I T T I N G S ,
A N D S P E C I A L T Y P R O D U C T S
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DANGO & DIENTHAL



Ball, Check, Forged Gate, and Globe Valve Offering			
Material	Size and 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 and 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 and 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 SS X 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 and 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



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Penn MACHINE Since 1931

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BETTIS Actuators & Controls

KITZ KITZ CORPORATION

Masoneilan

BAKER HUGHES a GE company

PSA ELECTRAULIC™ ACTUATION

FLEX-HOSE



DANGO & DIENENTHAL

Watson McDaniel Made in the USA Since 1878
Manufacturer of High-Quality Steam & Fluid Specialty Products for Industry

Valve Actuation and Automation

Types	Overrides	Valve Actuation and Automation Products	Size
<ul style="list-style-type: none"> Pneumatic Electric Direct Gas Gas-Hydraulic Hydraulic 	<ul style="list-style-type: none"> Manual Pneumatic Hydraulic 	<ul style="list-style-type: none"> Solenoid Valves and Accessories Filters and Regulators Limit Switches and 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: 1/2 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/THDxSW	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	1/2 to 36"



Resources

Trim Material	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 and Cu-Ni	Cu-Ni	410	410	410
7	410 and Hard 410	Hard 410	Hard 410	410	Seats 750BHN Min.
8	410 and Hardfaced	Stellite	410	410	410
8A	411 and Hardfaced	Ni-Cr	410	410	410
9	Monel	Monel	Monel	Monel	Monel
10	316	316	316	316	316
11	Monel and Hardfaced	Stellite	Monel	Monel	Monel
12	316 and Hardfaced	Stellite	316	316	316
13	Alloy 20	Alloy 20	Alloy 20	Alloy 20	Alloy 20
14	Alloy 20 and Hardfaced	Stellite	Alloy 20	Alloy 20	Alloy 20
15	304 and Hardfaced	Stellite	Stellite	304	304
16	316 and Hardfaced	Stellite	Stellite	316	316
17	347 and Hardfaced	Stellite	Stellite	347	347
18	Alloy 20 and 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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