

FULL PORT - BALL VALVES



STAINLESS STEEL

CIZEC	1/2" - 10"	
SIZES	CLASS	FIGURE #
	150	266F150
PRESSURES	150	266F150DM
	300	266F300
MATERIAL	CF8M	
ENDS	Flanged	
TRIM	TFM 1600 Seats; PTFE Packing	
FEATURES	Locking Device; ISO 5211 Mounting Pad. Pressure Relief Vent on Ball; Lever & Worm Gears	



CARBON STEEL

CIZEC	1/2" - 10"	
SIZES	CLASS	FIGURE #
	150	256F150
PRESSURES	300	256F300
MATERIAL	A216 WCB	
ENDS	Flanged	
TRIM	TFM 1600 Seats; 316 Stainless Steel Trim; PTFE Packing	
FEATURES	Locking Device; ISO 5211 Mounting Pad. Pressure Relief Vent on Ball; Lever & Worm Gears	

FULL PORT - BALL VALVES





STAINLESS STEEL

	1/2" - 12"	
SIZES	CLASS	FIGURE #
	150	266F150FS
PRESSURES	300	266F300FS
	600	266F600FS
MATERIAL	CF8M	
ENDS	Flanged	
TRIMS	TFM 1600 Seats; Low-Emission Graphite Packing - 100ppm; NACE - MR0103; API 607 Fire-Safe Design	
FEATURES	Locking Device; ISO 5211 Mounting Pad; Anti-Static Device; Pressure Relief Vent on Ball; Lever & Worm Gear. HNBR O-Rings on all 600# design.	



CARBON STEEL

	1/2" - 12"	
SIZES	CLASS	FIGURE #
	150	256F150FS
PRESSURES	300	256F300FS
	600	256F600FS
MATERIAL	A216 WCB	
ENDS	Flanged	
TRIMS	TFM 1600 Seats; 316 Stainless Steel Trim; Low-Emission Graphite Packing - 100ppm; NACE - MR0103; API 607 Fire Safe Design	
FEATURES	Locking Device; ISO 5211 Mounting Pad; Anti-Static Device; Pressure Relief Vent on Ball; Lever & Worm Gear. HNBR O-Rings on all 600# design.	



REDUCED PORT - BALL VALVES

FIRE SAFE





STAINLESS STEEL

	1/2" - 6"	
SIZES	CLASS	FIGURE #
PRESSURES	150	166R150FS
MATERIAL	CF8M	
ENDS	Flanged	
TRIM	TFM 1600 Seats; Low-Emission Graphite Packing - 100ppm; NACE - MR0103; API 607 Fire Safe Design	
FEATURES	Locking Device; ISO 5211 Mounting Pad; Anti-Static Device; Pressure Relief Vent on Ball; Lever & Worm Gear; Uni-body design	

CARBON STEEL

CITEC	1/2" - 6"	
SIZES	CLASS	FIGURE #
PRESSURES	150	156R150FS
MATERIAL	A216 WCB	
ENDS	Flanged	
TRIM	TFM 1600 Seats; 316 Stainless Steel Trim; Low-Emission Graphite Packing - 100ppm; NACE - MR0103; API 607 Fire Safe Design	
FEATURES	Anti-Static Device; Pres	5211 Mounting Pad; ssure Relief Vent on Ball; ar; Uni-body design

WAY FULL PORT - BALL VALVES



STAINLESS STEEL

SIZES	1/2" - 4"	
SIZES	CLASS	FIGURE #
	150	3T66F150DM
PRESSURES	150	3L66F150DM
MATERIAL	CF8M	
ENDS	Flanged	
PORTS	T-Port & L-Port	
TRIM	RTFE Seats; RTFE Packing; Viton™ O-Rings	
FEATURES	Locking Device; ISO 5211 Direct Mounting Pad; Lever	



REDUCED PORT 1-PC- BALL VALVES

FULL PORT 2-PC-BALL VALVES



STAINLESS STEEL & CARBON STEEL

	1/4" - 2"	
SIZES	CLASS	FIGURE #
PRESSURES	1000 WOG	166RT
	1000 WOG	156RT
MATERIAL	CF8M & WCB	
ENDS	Threaded	
TRIM	316 Stainless Steel Trim; PTFE Packing; RTFE Seats	
FEATURES	Slide Latch Locking Device;	
ILATORES	150 PSIG Saturated Steam Rating	



STAINLESS STEEL & CARBON STEEL

A STATE STATES		
SIZES	1/4" - 4"	
SIZES	CLASS	FIGURE #
PRESSURES	1000 WOG	266FTS
	1000 WOG	256FTS
MATERIAL	CF8M & WCB	
ENDS	Threaded	
TRIM	316 Stainless Steel Trim; PTFE Packing & Seal; RTFE Seats	
FEATURES	Slide Latch Locking Device; Oval Handwheels Available Upon Request; 150 PSIG Saturated Steam Rating	

FULL PORT 2-PC-BALL VALVES

FULL PORT 2-PC- SEALWELDED BODY



STAINLESS STEEL & CARBON STEEL

SIZES	1/4" - 2"	
	CLASS	FIGURE #
PRESSURES	2000-1500 WOG	266FT
PRESSURES	2000-1500 WOG	256FT
MATERIAL	CF8M & WCB	
ENDS	Threaded	
TRIM	316 Stainless Steel Trim; PTFE Packing & Seal;	
	RTFE Seats	
Slide Latch Locking Device;		ing Device;
FEATURES	Oval Handwheels Available Upon Request;	
11/10/11/11/11	150 PSIG Saturated Steam Rating	

SIZES

CLASS

FIGURE #



STAINLESS STEEL & CARBON STEEL

	1/4" - 2"	
SIZES	CLASS	FIGURE #
PDESCUPES	2000-1500 WOG	266FT
PRESSURES	2000-1500 WOG	256FT
MATERIAL	CF8M & WCB	
ENDS	Threaded	
TRIM	316 Stainless Steel Trim; PTFE Packing & Seal; RTFE Seats	
FEATURES	Slide Latch Locking Device; Oval Handwheels Available Upon Request; 150 PSIG Saturated Steam Rating	

SIZES



FULL PORT 2-PC- SEALWELDED BODY FIRE SAFE

FULL PORT 2-PC- BRASS BALL VALVES





STAINLESS STEEL

SIZES	1/4" - 2"	
	CLASS	FIGURE #
PRESSURES	2000-1500 WOG	266FTW (FS)
MATERIAL	CF8M	
ENDS	Threaded	
TRIM	316 Stainless Steel Trim; Graphite Packing; RTFE Seats	
FEATURES	Slide Latch Locking Device; Fire Safe; NACE MR0175; Oval Handwheels Available Upon Request; 150 PSIG Saturated Steam Rating	

FORGED BRASS

CIZEC	1/4" - 4"		
SIZES	CLASS	FIGURE #	
	600 WOG	200BRFTLH	
PRESSURES	600 WOG	200BRFT 2 1/2"- 4"	
MATERIAL	Brass		
ENDS	Threaded		
TRIM	Brass Stem; Chrome Plated Copper Ball; PTFE Packing & Seats		
FEATURES	150 PSIG Saturated Steam Rating; UL & CSA Listed up through 2" @ 400 WOG; Up through 4" Rated @ 250 WOG; Slide Latch Locking Device through 2"		

FULL PORT 3-PC-BALL VALVES

FULL PORT 3-PC-BALL VALVES





STAINLESS STEEL & CARBON STEEL

CIZEC	1/4" - 2"		
SIZES	CLASS	FIGURE #	
	1000 WOG	366FT & 366FW & 366FTxS	
PRESSURES	1000 WOG	356FT & 356FW & 356FTxS	
MATERIAL	CF8M & WCB		
ENDS	Threaded & Socketweld & THD x SWE		
TRIM 316 Stainless Steel Trim; PTFE Packing &		teel Trim; PTFE Packing & Seal;	
IRIVI	RTFE Seats		
FEATURES		g Device; ISO 5211 Mounting Pad;	
LAISKES	150 PSIG Saturated Steam Rating		

STAINLESS STEEL & CARBON STEEL

SIZES	1/4" - 4"		
SIZES	CLASS	FIGURE #	
PDECCUPE	1000 WOG	366FT & 366FW	
PRESSURES	1000 WOG	356FT & 356FW	
MATERIAL	CF8M & WCB		
ENDS	Threaded & Socketweld		
TRIM	316 Stainless Steel Trim; PTFE Packing & Seal; RTFE Seats		
FEATURES	Slide Latch Locking Device; ISO 5211 Mounting Pad; 150 PSIG Saturated Steam Rating		



FULL PORT 3-PC-BALL VALVES

FIRE SAFE

FULL PORT 3-PC- PEEK SEATED BALL VALVES FIRE SAFE



STAINLESS & CARBON STEEL

CIZEC	1/4" - 2"		
SIZES	CLASS	FIGURE #	
PRESSURES	2000-1500 WOG	2366FT & 2366FW & 2366FTxS	
	2000-1500 WOG	2356FT & 2356FW & 2356FTxS	
MATERIAL	CF8M & WCB		
ENDS	Threaded & Socketweld & THD x SWE		
TRIM	316 Stainless Steel Trim; Graphite Packing & Gasket; RTFE Seats		
FEATURES	Slide Latch Locking Device; Fire Safe; NACE MR0175; ISO 5211 Mounting Pad; 150 PSIG Saturated Steam Rating		



STAINLESS & CARBON STEEL

CIZEC	1/4" - 2"		
SIZES	CLASS	FIGURE #	
PRESSURES	2000-1500 WOG	2366FTP & 2366FWP	
PRESSURES	2000-1500 WOG	2356FTP & 2356FWP	
MATERIAL	CF8M & WCB		
ENDS	Threaded & Socketweld		
TRIM	316 Stainless Steel Trim; Graphite Packing & Gasket; PEEK Seats good up to 600° F		
FEATURES	Slide Latch Locking Device; Fire Safe; NACE MR0175; ISO 5211 Mounting Pad; 150 PSIG Saturated Steam Rating		

FULL PORT 2-PC FS SEALWELDED BODY FIRE SAFE

REDUCED PORT 3-WAY BALL VALVES



STAINLESS STEEL & CARBON STEEL

CIZEC	1/4" - 2"	
SIZES	CLASS	FIGURE #
	3600 WOG	3266HP & 3266HPW
PRESSURES	3600 WOG	3256HP & 3256HPW
PRESSURES	6000 WOG	6266HP
	6000 WOG	6256HP
MATERIAL	CF8M & WCB	
ENDS	Threaded & Socketweld	
TRIM	Sealwelded Body Design; 316 Stainless Steel Trim; Graphite Packing & Seal; PEEK Seats	
FEATURES	Slide Latch Locking Device; Fire Safe; NACE MR0175; ISO 5211 Mounting Pad; 250 PSIG	
	Saturated Steam Rating	



STAINLESS STEEL

SIZES	1/4" - 2"		
SIZES	CLASS	FIGURE #	
PRESSURES	1000 WOG	3T66RTDM	
PRESSURES	1000 WOG	3L66RTDM	
MATERIAL	CF8M		
ENDS	Threaded		
PORTS	T-Port & L-Port		
TRIM	RTFE Seats; PTFE Packing & Gasket; Viton™ O-Rings		
	Slide Latch Locking Device; ISO 5211 Direct		
FEATURES	Mounting Pad; Pressure Relief Vent on Ball; 150 PSIG Saturated Steam Rating		



FULL PORT 2-PC DIRECT MOUNT BALL VALVES

FULL PORT 3-PC DIRECT MOUNT BALL VALVES





STAINLESS STEEL

SIZES	1/4" - 2"		
SIZES	CLASS	FIGURE #	
PRESSURES	1000 WOG	266FTDM	
MATERIAL	CF8M & WCB		
ENDS	Threaded		
TRIM	316 Stainless Steel Trim; PTFE Packing & Seal;		
	TFM 1600 Seats; Viton™ O-Ring		
FEATURES	ISO 5211 Direct Mounting Pad; Anti-Static		
	Device; 150 PSIG Saturated Steam Rating		

STAINLESS STEEL

	1/4" - 4"		
SIZES	CLASS	FIGURE #	
PRESSURES	1000 WOG	366FTDM	
PRESSURES	1000 WOG	366FWDM	
MATERIAL	CF8M		
ENDS	Threaded & Socketweld		
TRIM	316 Stainless Steel Trim; PTFE Packing & Gasket; TFM 1600 Seats; Viton™ O-Ring		
FEATURES	ISO 5211 Direct Mounting Pad; Anti-Static Device; 150 PSIG Saturated Steam Rating		

TRUNNION MOUNTED BALL VALVES FIRE SAFE



STAINLESS STEEL & CARBON STEEL

SIZES				
SIZES	CLASS	CS X EPN FIGURE #	CS X 316 FIGURE #	316 X 316 FIGURE #
////	150	29FEFDHTR150FS	29F6FDHTR150FS	28F6FPTTR150FS
	150	39FEFDHTR150FS	39F6FDHTR150FS	38F6FPTTR150FS
PRESSURES	300	29FEFDHTR300FS	29F6FDHTR300FS	28F6FPTTR300FS
		39FEFDHTR300FS	39F6FDHTR300FS	38F6FPTTR300FS
	600	39FEFDHTR600FS	39F6FDHTR600FS	38F6FPTTR600FS
MATERIAL	A105N/LF2 x ENP; A105N/LF2 x 316; A182-F316 x 316			
ENDS	RF, BW, RTJ			
TRIM	3 Mil ENP; 316 Stainless Steel; Devlon®, PEEK Seats; HNBR, Teflon™ Lip Seals O-Rings; Graphite Packing			
FEATURES	API-6D; DBB to API-6D; Fire Safe to API 607; NACE to MR0103 & MR0175;			
FEATURES	Low Emi	Low Emission to API 622 -100 ppm; Emergency Grease Injector Fittings		



200 WOG THREADED GG&C VALVES

STANDARD PORT FORGED GG&C VALVES



STAINLESS STEEL

CIZEC	1/4" - 3"		
SIZES	CLASS	FIGURE #	
	200 WOG	SS200GT	
PRESSURES	200 WOG	SS200GL	
	200 WOG	SS200CK	
MATERIAL	CF8M		
TRIM	Threaded		
FEATURES	316 Stainle	ss Steel Trim	



STAINLESS STEEL

CIZEC	1/4" - 2"	
SIZES	CLASS	FIGURE #
PDESSUBES	1000 WOG	366FTDM
PRESSURES	1000 WOG	366FWDM
CONNECTION	CF8M	
MATERIAL	Threaded & Socketweld	
ENDS	316 Stainless Steel Trim; PTFE Packing & Gasket TFM 1600 Seats; Viton™ O-Ring	
	ISO 5211 Direct Mounting Pad; Anti-Static Device; 150 PSIG Saturated Steam Rating	
TRIM	Graphite Packing & Gasket to API 622 Low-Emission - 100ppm	
FEATURES	API 602 Design Standard	

STANDARD PORT FORGED GG&C VALVES



STAINLESS STEEL

SIZES	1/4" - 2"		
SIZES	CLASS	FIGURE #	
DDECCUDE	1000 WOG	366FTDM	
PRESSURES	1000 WOG	366FWDM	
CONNECTION	CF8M		
MATERIAL	Threaded & Socketweld		
	316 Stainless Steel Trim; PTFE Packing & Gasket;		
ENDS	TFM 1600 Seats; Viton™ O-Ring		
	ISO 5211 Direct Mounting Pad; Anti-Static		
TRIM	Device; 150 PSIG Saturated Steam Rating		
TRIM	API Trim 8; NACE MR0103 & MR0175;		
1997/60/60	Graphite Packing & Gasket to API 622		
	Low-Emission - 100ppm		
FEATURES	API 602 Design Standard		



200 WOG THREADED GG&C VALVES

STANDARD PORT FORGED GG&C VALVES



STAINLESS STEEL

CIZEC	1/4" - 3"	
SIZES	CLASS	FIGURE #
	200 WOG	SS200GT
PRESSURES	200 WOG	SS200GL
	200 WOG	SS200CK
MATERIAL	CF8M	
ENDS	Threaded	
TRIM	316 Stainless Steel Trim	



STAINLESS STEEL

0.750	1/4" - 2"		
SIZES	CLASS	FIGURE #	
(39)	800#	GASS800TE & GASS800SW	
PRESSURES	800#	GLSS800TE & GLSS800SW	
PRESSURES	800#	SCSS800TE & SCSS800SW	
	800#	PCSS800TE & PCSS800SW	
CONNECTION	Bolted Bonnet		
MATERIAL	A182 F316L		
ENDS	Threaded & Socketweld		
	API Trim 12; NACE MR0103 & MR0175; Graphite Packing & Gasket to API 622 Low-Emission - 100ppm		
TRIM			
FEATURES	API 602 Design Standard		

STANDARD PORT FORGED GG&C VALVES



MATERIAL

CARBON STYPEL

SIZES	1/4" - 2"		
SIZES	CLASS	FIGURE #	
	800#	GAN800TE & GAN800SW & GAN800TXS	
PRESSURES	800#	GLN800TE & GLN800SW	
	800#	SCN800TE & SCN800SW	
	800#	PCN800TE & PCN800SW	
CONNECTION	Bolted Bonnet		
MATERIAL	A105N		
ENDS	Threaded & Socketweld & THD x SWE		
TRIM	API Trim 8; NACE MR0103 & MR0175;		
IRIM	Graphite Packing & Gasket to API 622 Low-Emission - 100ppm		
FEATURES	API 602 Design Standard		



GATE, GLOBE & CHECJK VALVES

STANDARD PORT FORGED FLANGED END GG&C VALVES



CARBON STEEL

SIZES	1/4" - 2"	
SIZES	CLASS	FIGURE #
100000000000000000000000000000000000000	150#	GAN150FE
	150#	GLN150FE
	150#	SCN150FE
PRESSURES	150#	PCN150FE
	300#	GAN300FE
	300#	GLN300FE
	300#	SCN300FE
CONNECTION	Bolted Bonnet	
MATERIAL	A105N	
ENDS	Flanged	
	API Trim 8; NACE MR0103	
	& MR0175; Graphite Packing	
TRIM	& Gasket to API 622	
	Low-Emission - 100ppm	
FEATURES	API 602 Design Standard	

API 603 - CAST GATE, GLOBE & SWING CHECK VALVES



MATERIAL

STAINLESSUSTEEL

CIZEC	1/2" - 24"		
SIZES	CLASS	FIGURE #	FIGURE #
		TEFLON ®	GRAPHITE
	150#	SSN150GT	SSN150GRGT
	150#	SSN150GL	SSN150GRGL
PDESSUPES	150#	SSN150CK	SSN150GRCK
PRESSURES	300#	SSN300GT	SSN300GRGT
	300#	SSN300GL	SSN300GRGL
	300#	SSN300CK	SSN300GRCK
CONNECTION	Bolted Bonnet		
MATERIAL	CF8M		
ENDS	Flanged		
TRIM	API Trim 10; 150# 8" & Larger API Trim 12; 300# 6" & Larger API Trim 12; NACE MR0103 & MR0175; Low-Emission to API 622 - 100ppm		
FEATURES	API 603 Design Standard; Available in both Teflon® Packing & Gasket and Graphite Packing & Gasket		

API 600 - CAST GATE, GLOBE & SWING CHECK VALVES



STAINLESS STEEL

OTAINEESS STEEL			
CIZEC	2" - 36"		
SIZES	CLASS	FIGURE #	
	600#	SSN600GRGT	
(),338///33	600#	SSN600GRGL	
	600#	SSN600GRCK	
	900#	SSN900GRGT	
PRESSURES	900#	SSN900GRGL	
	900#	SSN900GRCK	
	1500#	SSN1500GRGT	
77776833	1500#	SSN1500GRGL	
VSF 7/5/2	1500#	SSN1500GRCK	
CONNECTION	Bolted Bonnet		
MATERIAL	CF8M		
ENDS	Flanged		
TRIM	API Trim 12; NACE MR0103 & MR0175; Graphite Packing & Gasket in accordance to API 622 Low-Emission - 100ppm		
FEATURES	API 600 Design Standard		

API 600 - CAST GATE, GLOBE & SWING CHECK VALVES



CARBON STEEL

CIZEC	2" - 36"		
SIZES	CLASS	FIGURE #	
	150#	CSN150GT	
	150#	CSN150GTG0	
	150#	CSN150GL	
	150#	CSN150CK	
	300#	CSN300GT	
DDESCUDES	300#	CSN300GTG0	
PRESSURES	300#	CSN300GL	
	300#	CSN300CK	
	600#	CSN600GT	
	600#	CSN600GTG0	
	600#	CSN600GL	
	600#	CSN600CK	
CONNECTION	Bolte	d Bonnet	
MATERIAL	A216 WCB		
ENDS	Flanged		
TRIM	API Trim 8; NACE MR0103 & MR0175 Graphite Packing & Gasket in accordanc to API 622 Low-Emission - 100ppm		
FEATURES	API 600-623-594 Design Standards; 8" and Larger Gates available with Bevel Gears Operators		



HIGH PERFORMANCE BUTTERFLY - DOUBLE OFF - SET FIRE SAFE NON FIRE SAFE



STAINLESS STEEL

CIZEC	2" - 36"	
SIZES	CLASS	FIGURE #
	150#	HPSS150LL & HPSS150LG
	150#	HPSS150LLFS & HPSS150LGFS
PRESSURES	300#	HPSS300LL & HPSS300LG
	300#	HPSS300LLFS & HPSS300LGFS
MATERIAL	CF8M	
ENDS	Lug	
TRIM	316 Stainless Steel Trim; Non Fire Safe & Fire Safe Design; PTFE+316 SS Seats and RTFE Soft Seats; NACE MR0175; Low-Emission - 50 ppm	
FEATURES	API 609 Design Standards; Lever & Gear Oper.; Dead End Service	

HIGH PERFORMANCE BUTTERFLY - DOUBLE OFF - SET FIRE SAFE NON FIRE SAFE



CARBON STEEL

SIZES	2" - 36"		
SIZES	CLASS	FIGURE #	
	150#	HPCS150LL & HPCS150LG	
PRESSURES	150#	HPCS150LLFS & HPCS150LGFS	
	300#	HPCS300LL & HPCS300LG	
	300#	HPCS300LLFS & HPCS300LGFS	
MATERIAL	A216 WCB		
ENDS	Lug		
TRIM	316 Stainless Steel Trim; Non Fire Safe & Fire Safe Design; PTFE+316 SS Seats and RTFE Soft Seats; NACE MR0175; Low-Emission - 50 ppm		
FEATURES	API 609 Design Standards; Lever & Gear Oper.; Dead End Service		

BUTTERFLY VALVES

RESILIENT SEATED BUTTERFLY VALVES



DUCTIL IRON

SIZES	2" - 36"		
SIZES	CLASS	FIGURE #	
PRESSURES	200#&150#	4800	
PRESSURES	200# & 150#	4100	
MATERIAL	Di	uctile Iron	
ENDS	Lug & Wafer		
TRIM	Disc: Ni-Coated Ductile Iron; 316 Stainless; Bronze Seats: EPDM; Buna-N; Teflon; Viton 416 Stainless Steel Stem		
FEATURES	API 609 Design Standard; Lever & Gear Oper.; 2" - 12" 200 PSI 14" - 24" 150 PSI; Dead End Service; All Teflon™ Seated Valves 150 PSI		

RESILIENT SEATED - SHORT NECK BUTTERFLY VALVES



DUCTIL IRON

SIZES	2" - 12"	
SIZES	CLASS	FIGURE #
PRESSURES	200#	6800
PRESSURES	200#	6100
MATERIAL	Ductile Iron	
ENDS	Lug & Wafer	
	Disc: Ni-Coated Ductile Iron;	
TRIM	316 Stainless; Bronze	
	Seats: EPDN	M; Buna-N; Teflon™;
	Viton® 416 Stainless Steel Stem	
FEATURES	API 609 Design Standard;	
FEATURES	Lever & Gear Oper.; Double "D" S	