

MCBV & SSBV BALL VALVES					
Port Size	Fastener	Description/	Torque		
Inch mm	Size	Location	ft-lb	Nm	
3/4" - 2" 20 - 50	1/2" - 13	Main Body Bolts	35	47	
	3/4" NPT	Lower Plug	Secure to Seal	Secure to Seal	
2½"-3" 65-75	3/4" - 10	Main Body Bolts	90	122	
Z /2" - 3" 65 - / t	3/4" NPT	Lower Plug	Secure to Seal	Secure to Seal	

QSV QUARTER-TURN SERVICE VALVES						
Port	Size	Fastener	Description/	Tor	orque	
Inch	mm	Size	Location	ft-lb	Nm	
³ ⁄ ₄ "-1 ¹ ⁄ ₄ " 20 - 32	20 22	5/8" - 11	Body to Flange Bolts/Nuts	70	95	
	20-32	3/8" NPT	Lower Plug	Secure to Seal	Secure to Seal	
11/2" - 2"	40 - 50	5/8" - 11	Body to Flange Bolts/Nuts	70	95	
		3/8" NPT	Lower Plug	Secure to Seal	Secure to Seal	

		A4t P	RESSURE REGULAT	ORS	
Port	Size	Fastener	Description/	Torque	
Inch	mm	Size	Location	ft-lb	Nm
		1/4" - 20	Pressure Pilot Screws	10	14
		1/2" - 13	Top Adapter Bolts	55	74
³ / ₄ " - 1 ¹ / ₄ " 20 - 32	3/8" - 16	Bottom Cover Bolts	30	40	
		1/4" - NPT	Drain Port	Secure to Seal	Secure to Seal
		5/8" - 11	Top Adapter Bolts	100	135
11/2"-21/2" 4	40-65	1/2" - 13	Bottom Cover Bolts	45	61
		1/4" - NPT	Drain Port	Secure to Seal	Secure to Seal

		S4t, S7t,	and S8t SOLENOID	VALVES	
Port Size		Fastener	Description/	Torque	
Inch	mm	Size	Location	ft-lb	Nm
		#8 - 32	Solenoid Tube Screws	20 in-lb	2
1/2"	13	1/4" - 20	Strainer Cover Screws	10	14
		1/2" - 13	Top Adapter Bolts	55	74
³ / ₄ " - 1 ¹ / ₄ " 20 - 32	20 - 32	3/8" - 16	Bottom Cover Bolts	30	40
		1/4" - NPT	Drain Port	Secure to Seal	Secure to Seal
		5/8" - 11	Top Adapter Bolts	100	135
11/2" - 21/2"	40-65	1/2" - 13	Bottom Cover Bolts	45	61
		1/4" - NPT	Drain Port	Secure to Seal	Secure to Seal

CK5Dt GAS POWERED CHECK VALVES				
Fastener	Description/	Torque		
Size	Location	ft-lb	Nm	
5/8" - 11	Top Adapter Bolts	100	135	
1/2" - 13	Bottom Cover Bolts	45	61	
1/4" - NPT	Drain Port	Secure to Seal	Secure to Seal	
	Fastener Size 5/8" - 11 1/2" - 13	Fastener Description/ Size Location 5/8" - 11 Top Adapter Bolts 1/2" - 13 Bottom Cover Bolts	Fastener Description/ Torestee Location ft-lb 5/8" - 11 Top Adapter Bolts 100 1/2" - 13 Bottom Cover Bolts 45	

RECOMMENDED PROCEDURE FOR FLANGE BOLT TIGHTENING

Use fresh gaskets. Ensure all sealing surfaces are clean and free of damage and debris. A light coating of refrigerant oil may be used on gaskets. Verify flanges are parallel and pipes are in alignment. Use proper and approved bolting materials. Tighten fasteners gradually and in an opposing pattern. Reference the latest edition of IIAR Standards for further guidance.

Anti-seize lubricant recommended for all stainless steel fasteners.

HANTEMP Controls reserves the right to alter product specifications, materials, and pricing without notice.

