

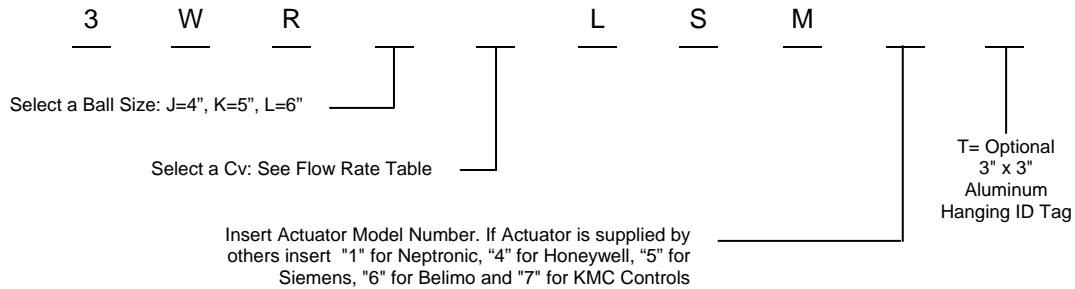
SPECIFICATIONS

Static Pressure/Temp: 240 PSI / 250°F
Service: Chilled water, hot water, up to 50% Glycol, or contact factory for additional fluids.
Body Material: Cast Iron ASTM A395, 60-40-18
End Connections: ANSI Class 125
Stem: Stainless Steel
Stem Seals: EPDM O-Rings
Ball Valve: Stainless Steel
Ball Seals: Teflon Seals
Angle of Rotation: 0–90°
Leakage: Bypass port has ANSI Class 3 Leakage Rate when valve is in straight through position.¹

DIMENSIONS & WEIGHTS (NOMINAL) (measured in inches and lbs unless noted)

SIZE	MODEL NO.	Cv	A:LENGTH	B:HEIGHT	C:LENGTH ²	D:DEPTH (NOT SHOWN)	E:HEIGHT	WEIGHT
4"	3WRJ__	91, 118, 152, 197, 254, 327	11.9	9.0	14.3	10.5	19.4	75
5"	3WRK__	144, 185, 240, 309, 400	13.9	10.0	15.3	12.0	20.3	90
6"	3WRL__	208, 268, 346, 441, 577, 650	15.9	11.0	16.3	13.4	21.4	105

MODEL NUMBER SELECTION



NOTES

¹ Bypass flow leakage rate based on largest Cv of the ball.
² Dimension "C" is maximum length, which is measured from end flange or mounting plate, whichever extends farther.
 Replaces form F-5359D

Cv SELECTION AND FLOW RATE TABLE (GPM)

LINE SIZE	MODEL NO.	CLOSE OFF ³	FLOWRATE (GPM) @ DIFFERENTIAL PRESSURE (PSI) ACROSS VALVE											
			2-Position HVAC Apps		HVAC Modulating Apps									
			0.5	Cv ⁴ 1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	7.0	10.0
4"	3WRJA_	70PSI	64.3	91	111	129	144	158	170	182	193	203	241	288
	3WRJB_		83.4	118	145	167	187	204	221	236	250	264	312	373
	3WRJC_		107.5	152	186	215	240	263	284	304	322	340	402	481
	3WRJD_		139.3	197	241	279	311	341	369	394	418	441	521	623
	3WRJE_		179.6	254	311	359	402	440	475	508	539	568	672	803
	3WRJF_		231.2	327	400	462	517	566	612	654	694	731	-	-
5"	3WRKA_	70PSI	101.8	144	176	204	228	249	269	288	305	322	381	455
	3WRKB_		130.8	185	227	262	293	320	346	370	392	414	489	585
	3WRKC_		169.7	240	294	339	379	416	449	480	509	537	635	759
	3WRKD_		218.5	309	378	437	489	535	578	618	655	691	818	-
	3WRKE_		282.8	400	490	566	632	693	748	800	849	894	-	-
6"	3WRLA_	70PSI	147.1	208	255	294	329	360	389	416	441	465	550	658
	3WRLB_		189.5	268	328	379	424	464	501	536	569	599	709	847
	3WRLC_		244.7	346	424	489	547	599	647	692	734	774	915 ⁵	-
	3WRLD_		311.8	441	540	624	697	764	825	882	936 ⁵	-	-	-
	3WRLE_		408.0	577	707	816	912 ⁵	999 ⁵	-	-	-	-	-	-
	3WRLF_		459.6	650	796	919 ⁵	-	-	-	-	-	-	-	-

ACTUATOR MODEL NUMBER SELECTION

Siemens	GLB131.1P	GLB136.1P	GLB161.1P	GLB166.1P	GEB131.1P	GEB136.1U	GEB161.1P
Torque of 88 in-lb	•	•	•	•			
Torque of 132 in-lb					•	•	•
Control Signal: 3 Point	•	•			•	•	
Control Signal: Modulating 0–10VDC			•	•			•
Power Supply 24 VAC	•	•	•	•	•	•	•
Speed: 125 sec	•	•	•	•	•	•	•
Built-In Auxiliary Switches		•		•		•	
Nema 1 Enclosure					•	•	•
Nema 2 Enclosure	•	•	•	•			

Siemens	GCA121.1P	GCA131.1P	GCA136.1P	GCA161.1P	GCA166.1P
Torque of 142 in-lb	•	•	•	•	•
Control Signal: On/Off	•				
Control Signal: 3 Point		•	•		
Control Signal: Modulating 0–10 VDC				•	•
Power Supply 24 VAC	•	•	•	•	•
Speed: 90 sec	•	•	•	•	•
Built-In Auxiliary Switches			•		•
Nema 2 Enclosure	•	•	•	•	•
Fail Safe (Spring Return)	•	•	•	•	•

NOTES

³ Close-Off Pressures measured with 88 in-lb. actuator for 4"-5" valves. Close-Off Pressures measured with 140 in-lb actuator for 6" valve, up to 700 gpm. For flowrates greater than 700 gpm a 200 in-lb actuator is recommended. The "Close Off Pressure" is the maximum allowable pressure drop across the valve body when the valve is fully closed.

⁴ Cv is defined as the quantity of water in GPM at 60°F that will flow through a given valve with a pressure drop of 1PSI. Hence the 1.0 PSI pressure differential column in the table above is equivalent to the Cv value.

⁵ Due to high velocity, flowrates of 900 gpm and higher may result in water noise.

Replaces form F-5359D

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