

W265 & W285 HTST

FLOW DIVERSION VALVE

FEATURES AND BENEFITS

- Lower body streamlined for improved flow path and cleanability
- Flush Ports for easy cleaning
- Compact vertical design
- Works with existing control system
- High temperature Tef-Flow™ P seats
- Transparent WCB Control Top with or without solenoid
- Fully Maintainable Actuator
- 4", 5", or 6" diameter actuators
- S, I, or Q clamp connections
- Body clamps standard "S" style

APPLICATION

For use in HTST (High Temperature Short Time) systems for diverting product to forward flow after reaching legal pasteurization temperatures.

Waukesha Cherry-Burrell's Non-Slamming design prevents water hammer or hydraulic shock conditions caused by traditional flow diversion valves, extending the life of the valve and surrounding process equipment.

MATERIALS

Product Wetted: ASTM 316L (UNS-S31603); (DIN-1.4404)

Non-Product: ASTM 304 (UNS-S30400); (DIN-1.4301)

Seat Material: Tef-Flow™ P

See Page 2 for other available seat options

Elastomers: Fluoroelastomer (FKM) -Std EPDM -Opt

Finish: < 32Ra (<0.8 mm)

Other finishes available upon request

MAXIMUM PRESSURE RATING

Standard

VALVE SIZE W/ PRESSURE AT	1.0/1.5" (25/38 mm)	2.0" (51 mm)	2.5" (64 mm)	3.0" (76 mm)	4.0" (102 mm)	6.0"* (152 mm)	
70°F (20°C)	500 34.5	450 31	400 28	350 24	200 14	150 10	psi bar
160/180°F (71/82°C)	375 26	350 24	300 psi 17	250 17	150 10	100 6	psi bar
250°F (121°C)	250 17	250 17	200 14	150 10	125 8	75 5	psi bar

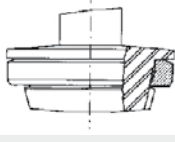
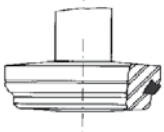
Valve with High Pressure Adapter and Clamps

VALVE SIZE W/ PRESSURE AT	1.0/1.5" (25/38 mm)	2.0" (51 mm)	2.5" (64 mm)	3.0" (76 mm)	4.0" (102 mm)	6.0"* (152 mm)	
70°F (20°C)	1220 84	900 62	720 49	---	---	---	psi bar
160/180°F (71/82°C)	1160 80	855 60	690 47	---	---	---	psi bar
250°F (121°C)	1100 75	830 57	660 45	---	---	---	psi bar



OPTIONS AND ACCESSORIES

SEAT OPTIONS

SEAT TYPE	MAXIMUM TEMPERATURE
 <p>Tef-Flow™ P</p>	280°F (137°C)
 <p>Tri Ring (TR) EPDM, FKM</p>	Oper. 280°F (137°C) EPDM Steril. 275°F (135°C) EPDM Oper. 350°F (176°C) FKM Steril. Consult Factory FKM

For higher temperature applications than those listed, please consult the factory.

CONTROL TOPS



The W265 HTST valve assembly comes complete with 1 or 2 microswitches in each valve control module to meet PMO requirements for position indication. Solenoids are optional.

Features

- Transparent WCB control top keeps all electrical components visible.
- Designed with the user in mind, making assembly and troubleshooting worry free and easy
- Waukesha Cherry-Burrell uses the industry's most widely recognized electrical components, so access to off-the-shelf replacement parts is easy, ensuring quick delivery and less down time
- NEMA 4X (IP64)

Connector Options

- S/O Cord Grip for hard wire (Std.)
- Quick Disconnect Pin Connectors

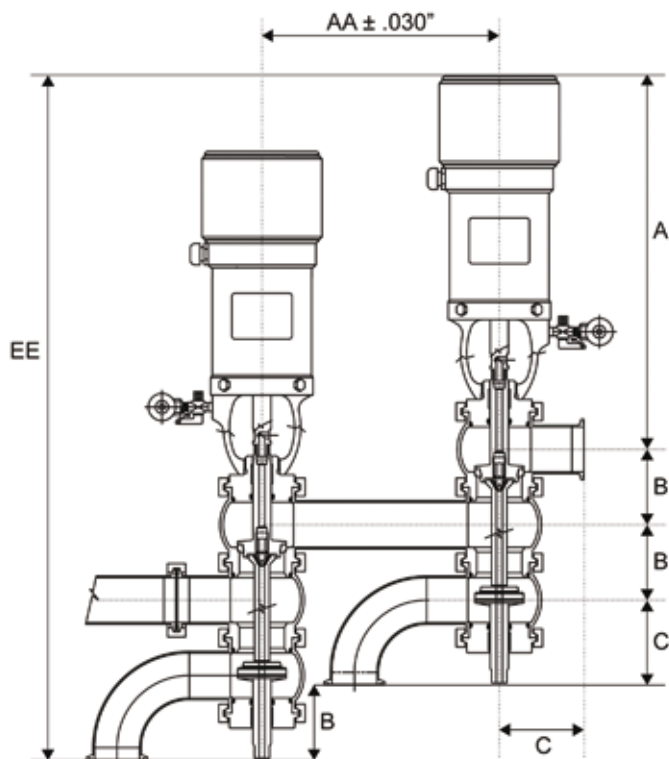
Position Indication

- Microswitches 24VDC, 110VAC

Solenoid Valves

- 24VDC or 110V

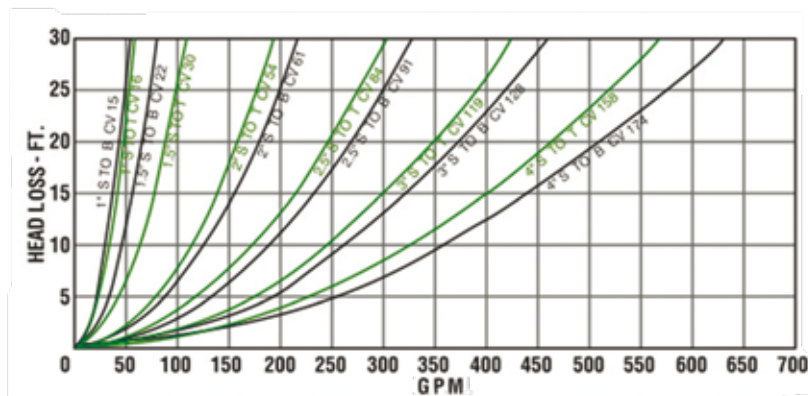
PRODUCT DIMENSIONS



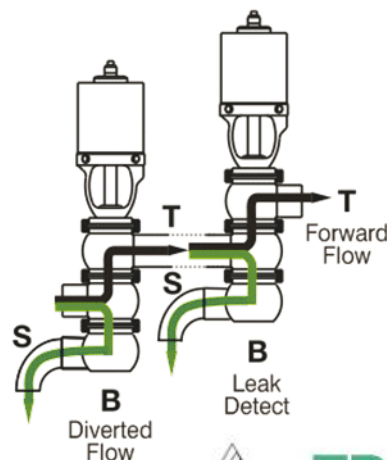
VALVE SIZE	A 4" ACTUATOR	A 5" ACTUATOR	A 6" ACTUATOR	B	C I-LINE	C S-LINE	
1.0" 25 mm	16.60 422	17.91 455	19.67 500	2.63 52	3.75 95	3.12 79	psi bar
1.5" 38 mm	16.60 422	17.91 455	19.67 500	2.63 52	3.19 81	2.75 70	psi bar
2.0" 50 mm	16.85 428	18.16 461	19.92 506	3.13 79	4.03 102	3.5 89	psi bar
2.5" 63 mm	----	18.41 468	20.17 512	3.63 92	4.16 106	3.5 89	psi bar
3.0" 76 mm	----	----	20.42 519	4.13 105	4.47 113	3.75 95	psi bar
4.0" 101 mm	----	----	20.90 531	5.11 130	5.22 132	4.5 114	psi bar

VALVE SIZE	ACTUATOR	AA	EE		
			I-Line	S-Line	
1.0" 25 mm	4 102	7.76 197	28.24 717	27.61 701	psi bar
1.5" 38 mm	4 102	8.76 222	27.68 703	27.24 692	psi bar
2.0" 50 mm	4 102	9.85 250	30.27 769	29.74 755	psi bar
2.5" 63 mm	5 127	11.23 285	33.46 850	32.80 833	psi bar
3.0" 76 mm	6 152	12.87 327	37.28 947	36.56 929	psi bar
4.0" 101 mm	6 152	16.11 409	41.45 1053	40.73 1035	psi bar

PRESSURE LOSS CURVES



Model W265



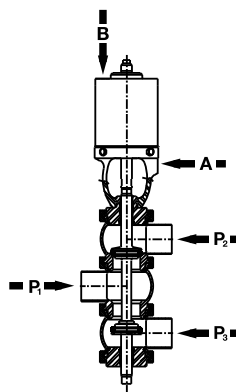


W265 HOLDING PRESSURE CHARTS

VALVE SIZE	ACTUATOR SIZE						
	BOTTOM PORT (P ₁), ACTUATOR SPRING HOLDS CLOSED AGAINST:						
	4AR	4HAR	5AR	5HAR	6AR	6HAR	
1.0"	214	284	336	--	--	--	psi
25 mm	15	20	23	--	--	--	bar
1.5"	162	230	289	495	418	--	psi
38 mm	11	16	20	34	29	--	bar
2.0"	76	109	139	237	200	367	psi
50 mm	5	8	10	16	14	25	bar
2.5"	50	70	87	150	126	239	psi
63 mm	3	5	6	10	9	16	bar
3.0"	34	47	59	101	85	161	psi
76 mm	2	3	4	7	6	11	bar
4.0"	19	26	32	56	46	89	psi
101 mm	1	2	2	4	3	6	bar

VALVE SIZE	ACTUATOR SIZE						
	PORT (P ₃), STEM RAISED, SPRING LOWERS STEM AGAINST:						
	4AR	4HAR	5AR	5HAR	6AR	6HAR	
1.0"	344	418	--	--	--	--	psi
25 mm	24	29	--	--	--	--	bar
1.5"	344	418	433	--	--	--	psi
38 mm	24	29	30	--	--	--	bar
2.0"	169	205	218	392	279	--	psi
50 mm	12	14	15	27	19	--	bar
2.5"	102	124	132	237	168	404	psi
63 mm	7	9	9	16	12	28	bar
3.0"	69	83	89	160	114	274	psi
76 mm	5	6	6	11	8	19	bar
4.0"	37	45	49	89	63	152	psi
101 mm	3	3	3	6	4	10	bar

VALVE SIZE	ACTUATOR SIZE						
	PORT (P ₂), AIR TO PORT A, WILL RAISE STEM AGAINST:						
	4AR 50 psi (3 bar)	4HAR 75 psi (5 bar)	5AR 50 psi (3 bar)	5HAR 75 psi (5 bar)	6AR 50 psi (3 bar)	6HAR 75 psi (5 bar)	
1.0"	223	371	356	--	--	--	psi
25 mm	15	26	25	--	--	--	bar
1.5"	275	425	403	--	--	--	psi
38 mm	19	29	28	--	--	--	bar
2.0"	138	212	200	272	285	361	psi
50 mm	10	15	14	19	20	25	bar
2.5"	79	124	117	157	167	200	psi
63 mm	5	9	8	11	12	14	bar
3.0"	53	83	79	106	113	135	psi
76 mm	4	6	5	7	8	9	bar
4.0"	29	45	43	57	61	73	psi
101 mm	2	3	3	4	4	5	bar



If pressure rating is higher than documented in tables consult factory before exceeding.

Normal air supply requirement: 50 psi (3 bar) for 4 and 5 inch actuator, 6 inch light spring actuator.

75 psi (5 bar) for 6 inch standard actuator

Based in Charlotte, North Carolina, SPX FLOW, Inc. (NYSE: FLOW) is a multi-industry manufacturing leader. For more information, please visit www.spxflow.com



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