

Our Products Develop Tomorrow's Technologies



WELCH BELT DRIVE Rotary Vane		1373	1374	1375	1376	1380	1395	1396	1397	1398	1399	1400	1402	1403	1404
Pump Speed (CFM)	10.6	23	35	10.6	5.6	70.8	99	17.7	53.1	1.9	9	5.6			
Inlet Flange	1 1/2 12	1 3/4 20	3 1/4	1-20	1-20	3 1/4	3 1/4	1 3/4-20	3 1/4	3/4-20	3/4-20	3/4-20	1-20		
Outlet Flange	1-20	1 3/4-20	3 1/2 sq.	1-20	1-20	3 1/2 sq.	3 1/2 sq.	1 3/4-20	1 3/4-20	3/4-20	3/4-20	3/4-20	1-20		
Ultimate Pressure (Torr)	1.5X10 ⁻²	1.0X10 ⁻⁴	1.0X10 ⁻⁴	1.0X10 ⁻⁴	1.5X10 ⁻²	2.0X10 ⁻³	2.0X10 ⁻³	1.0X10 ⁻³	1.0X10 ⁻⁴	2.0X10 ⁻³	1.5X10 ⁻²	1.0X10 ⁻⁴	1.0X10 ⁻⁴		
Rotation Speed (rpm)	525	510	335	525	535	340	470	400	245	750	580	525			
Oil Capacity (liters)	2.37	1.2	0.95	2.4	3.5	2.37	2.37	1.2	2.37	0.47	0.59	2.1			
Oil Type Hydrocarbon	DuoSeal	DuoSeal	DuoSeal	DuoSeal	DuoSeal	DuoSeal	DuoSeal	DuoSeal	DuoSeal	DuoSeal	DuoSeal	DuoSeal	DuoSeal	DuoSeal	DuoSeal
Tubing ID (inches)		1 5/8		13/16	13/16			1 5/8		7/16	7/16	13/16			
Weight (Lbs)	150	220	416	156	91	601	622	205	601	51	58	112			
Length (inches)	21	26	32.5	20	20	44	44	26	44	17	17.8	20			
Width (inches)	13	13.7	21	14	12	21	21	13.7	21	9	9	12			
Height (inches)	16	18.8	32	15.4	15	35	35	18.8	35	10	12	15			
Common Motor Phase	1	1	1	1	1	1	1	1	1	1	1	1			
Common Motor Voltage	115/220	115/220	115/220	115/220	115/220	115/220	115/220	115/220	115/220	115/220	115/220	115/220	115/220		
WELCH BELT DRIVE Rotary Vane		1405	1410	1400N	1402N	1376N									
Pump Speed (CFM)	3.2	0.7	0.9	5.6	10.6										
Inlet Flange	1-20	3/8-18	NW16	NW25	NW25										
Outlet Flange	1-20	1/2-0D	NW16	NW25	NW25										
Ultimate Pressure (Torr)	1.0X10 ⁻⁴	2.0X10 ⁻²	1.0X10 ⁻⁴	1.0X10 ⁻⁴	1.0X10 ⁻⁴										
Rotation Speed (rpm)	525	750	580	525	525										
Oil Capacity (liters)	2.1	0.47	0.59	2.1	2.37										
Oil Type Hydrocarbon	DuoSeal	DuoSeal	Gold	Gold	Gold										
Tubing ID (inches)	7/16		7/16	13/16	13/16										
Weight (Lbs)	112	50	58	112	156										
Length (inches)	20	21	17.8	19.3	19.3										
Width (inches)	12	13	9	14.1	12.3										
Height (inches)	15	16	12.6	15.4	15.6										
Common Motor Phase	1	1	1	1	1										
Common Motor Voltage	115/220	115/220	115/220	115/220	115/220										



*Welch does not carry this size

WELCH Pump Models		Hose Connector		ISO/NW/KF Connector	
Hose ID	Welch PN	Hose ID	Welch PN	ISO/NW/KF Thread Size	ISO/NW/KF A
7/16"	1393J	7/16"	1393J	3/4"-20	1.12"
13/16"	1393K	13/16"	1393K	1"-20	1.2"
1 5/8"	1393L	1 5/8"	1393L	1 3/4"-20	1.4"
7/16"	1393M	7/16"	1393M	1-20 (new style)	1.2"
				3/4"-20 (old style)	1.2"
				1 1/8"-20	1.12"
				1 1/8"-20	1.4"

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WELCH DIRECT DRIVE Rotary Vane		8803	8804	8806	8811	8814	8816	8821	8851	8890	8905	8905A	8907A	8910A	8912A
Pump Speed (cfm)	1.25	1.25								1.1	1.1	2.6	2.6	3.8	3.8
Inlet Flange	Barb 3/8	Barb 3/8								Barb 1/4mpf	unibarb 3/4-20	unibarb 1 1/8-20	unibarb 1 1/8-20	unibarb 1 1/8-20	unibarb 1 1/8-20
Outlet Flange	3/4-20	3/4-20								1-20	3/4-20	1-20	1-20	1-20	1-20
Ultimate Pressure (Torr)	3.0X10 ⁻²	1.0X10 ⁻³								1.0X10 ⁻¹	1.0X10 ⁻¹	1.0X10 ⁻⁴	1.0X10 ⁻⁴	1.0X10 ⁻⁴	1.0X10 ⁻⁴
Rotation Speed (rpm)	3450	3450								3450	3450	1725	1725	1725	1725
Oil Capacity (liter)	0.28	0.12								0.48	0.42	1.0	1.0	0.9	0.9
Oil Type Hydrocarbon	DuoSeal	DuoSeal								DuoSeal	DuoSeal	DuoSeal	DuoSeal	DuoSeal	DuoSeal
Tubing Needed ID inches	3/8	3/8								3/8	3/16-7/16	7/16-13/16	7/16-13/16	7/16-13/16	7/16-13/16
Weight (lbs)	16	22								24.5	24.5	40	40	41	41
Length (inches)	14.5	14.5								14.5	14.1	19.5	19.5	18.5	18.5
Width (inches)	5.1	5.1								5.1	5.1	6.5	6.5	6.5	6.5
Height (inches)	8.4	8.4								8.4	8.4	9.6	9.6	9.6	9.6
Common Motor Phase	1	1								1	1	1	1	1	1
Common Motor Voltage	115/220	115/220								115/220	115/220	115/220	115/220	115/220	115/220
WELCH DIRECT DRIVE Rotary Vane		8915	8915A	8917A	8920	8925A									
Pump Speed (cfm)			6.1	7.7	11.3										
Inlet Flange			unibarb 1 1/8-20	unibarb 1 1/8-20	unibarb 1 1/8-20	unibarb 1 1/8-20									
Outlet Flange			1-20	1-20	1-20	1-20									
Ultimate Pressure (Torr)			1.0X10 ⁻⁴	3.0X10 ⁻⁴	4.0X10 ⁻⁴	4.0X10 ⁻⁴									
Rotation Speed (rpm)			1725	1725	1725	1725									
Oil Capacity (liter)			0.9	1.3	1.1	1.1									
Oil Type Hydrocarbon			DuoSeal	DuoSeal	DuoSeal	DuoSeal									
Oil Type PFPE			7/16-13/16	9/16-13/16	9/16-13/16	9/16-13/16									
Weight (lbs)			43	58.5	69	69									
Length (inches)			18.5	20.5	21.2	21.2									
Width (inches)			6.5	7.1	7.1	7.1									
Height (inches)			9.6	10.7	10.7	10.7									
Common Motor Phase			1	1	1	1									
Common Motor Voltage			115/220	115/220	115/220	115/220									



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WELCH Pump Models	Hose Connector		ISO/NW/KF Connector	
	Hose ID	Welch PN	Thread Size	ISO/NW/KF A
1399, 1400&N, 8905, 8890	7/16"	1393J	3/4"-20	NW16 1.12"
1402, 1380, 1376, 8920	13/16"	1393K	1"-20	NW25 1.2"
8925, 8907, 8912, 8917, 1405, 1376N, 1402N	1 5/8"	1393L	1 3/4"-20	NW40 1.4"
1374, 1397	7/16"	1393M	1-20 (new style)	NW25 1.2"
1405 (new style), 1402	7/16"	1393M	3/4"-20 (old style)	NW16 1.12"
*1405 (old style)			3/4"-20	NW16 1.12"
8905			1 1/8"-20	NW25 1.4"
8907, 8912, 8917, 8920, 8925				NW25 1.4"