

PN-SERIES

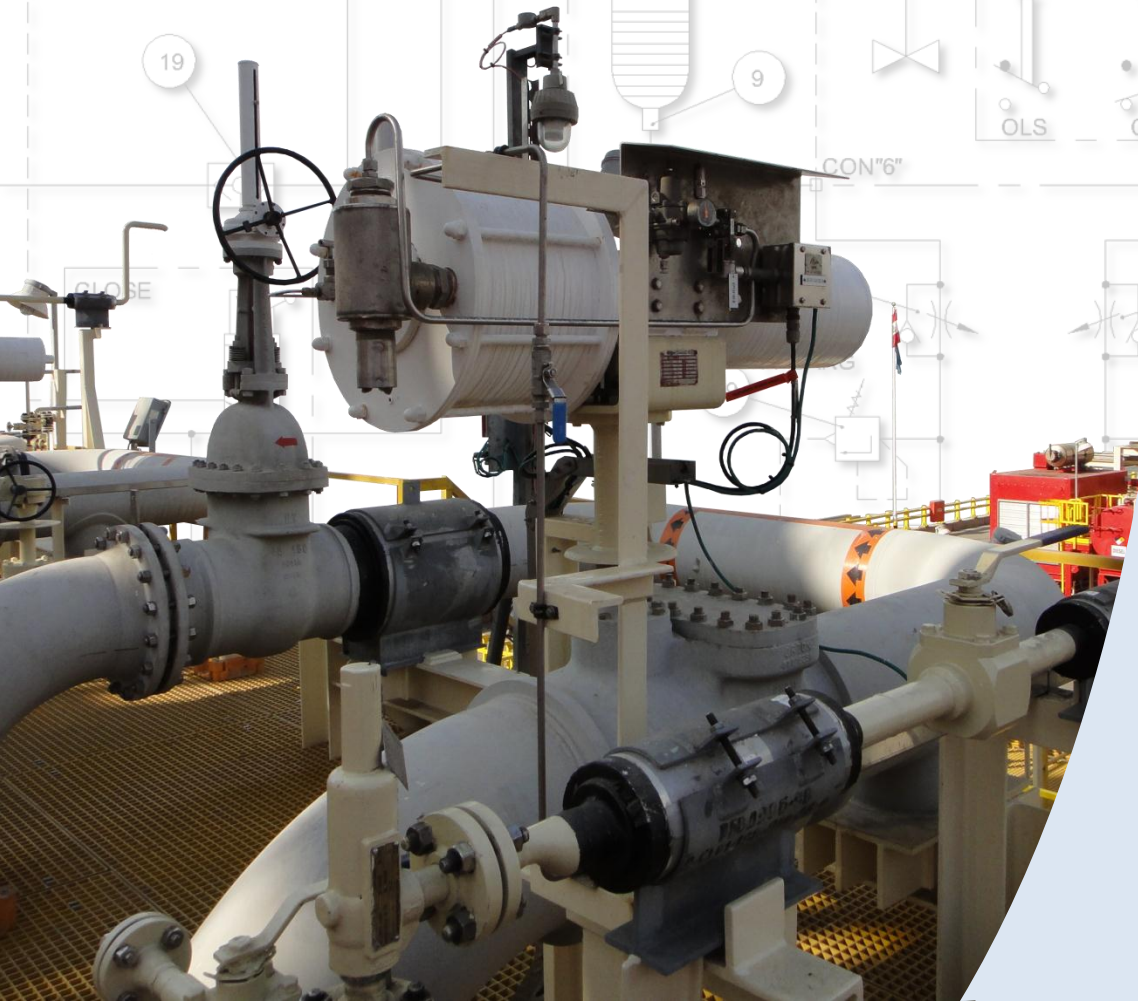
Weights & Dimensions - Imperial



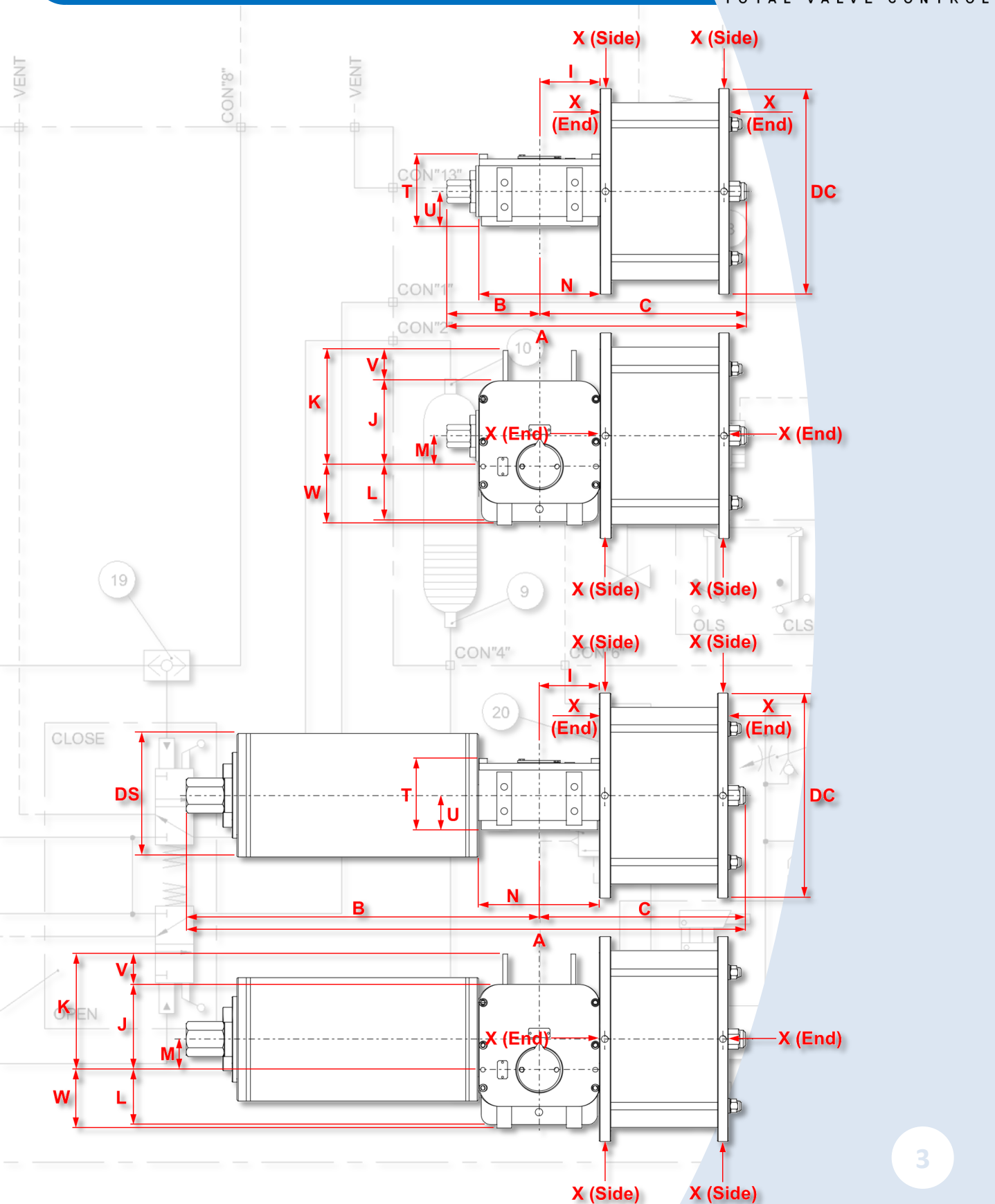
INTRODUCTION

Paladon Systems PN-Series high performance pneumatic scotch-yoke valve actuators are designed specifically to control quarter-turn (90°) valves such as ball, plug and butterfly. The all-steel construction guarantees rugged performance over an extended service life.

The design criteria were established to guarantee a long life-cycle under severe service conditions. Optimum design dictates a minimum of moving parts based on the scotch-yoke design which has been proven over many years to be the most efficient mechanism for operating quarter-turn valves by converting linear piston movement to rotary motion. This mechanism has been refined by Paladon Systems to minimise friction and deliver high torque outputs even at low supply pressures.



DIMENSIONS GUIDE



FRAME 0.4 ASSEMBLIES

Actuator Model	A (in)	B (in)	C (in)	DS (in)	DC (in)	I (in)	J (in)	K (in)	L (in)	M (in)	N (in)	T (in)	U (in)	V (in)	W (in)	X NPT	Weight (lbs)	Swept Volume (cu.in.)
PNS-0.4-78-DA	13.82	4.22	9.61	N/A	6.07	2.33	3.47	5.44	2.05	0.99	4.65	4.02	1.97	1.97	2.21	1/4" (side conn.)	39.69	31.74
PNS-0.4-122-DA	13.82	4.22	9.61	N/A	7.05	2.33	3.47	5.44	2.05	0.99	4.65	4.02	1.97	1.97	2.21	1/4" (side conn.)	50.71	49.43
PNS-0.4-201-DA	13.82	4.22	9.61	N/A	8.43	2.33	3.47	5.44	2.05	0.99	4.65	4.02	1.97	1.97	2.21	1/4" (side conn.)	59.53	81.17
PNS-0.4-314-DA	13.82	4.22	9.61	N/A	10.00	2.33	3.47	5.44	11.03	0.99	4.65	4.02	1.97	1.97	2.21	1/4" (side conn.)	74.96	126.32
PNS-0.4-78-SRC0A	19.97	10.36	9.61	4.00	6.07	2.33	3.47	5.44	2.05	0.99	4.65	4.02	1.97	1.97	2.21	1/4" (side conn.)	48.51	31.74
PNS-0.4-78-SRC1A	20.87	11.26	9.61	4.00	6.07	2.33	3.47	5.44	2.05	0.99	4.65	4.02	1.97	1.97	2.21	1/4" (side conn.)	48.51	31.74
PNS-0.4-78-SRC2A	20.63	11.03	9.61	4.00	6.07	2.33	3.47	5.44	2.05	0.99	4.65	4.02	1.97	1.97	2.21	1/4" (side conn.)	48.51	31.74
PNS-0.4-78-SRC3A	21.26	11.66	9.61	4.00	6.07	2.33	3.47	5.44	2.05	0.99	4.65	4.02	1.97	1.97	2.21	1/4" (side conn.)	48.51	31.74
PNS-0.4-78-SRC4A	20.87	11.26	9.61	5.00	6.07	2.33	3.47	5.44	2.05	0.99	4.65	4.02	1.97	1.97	2.21	1/4" (side conn.)	50.71	31.74
PNS-0.4-78-SRC5A	21.34	11.74	9.61	5.00	6.07	2.33	3.47	5.44	2.05	0.99	4.65	4.02	1.97	1.97	2.21	1/4" (side conn.)	50.71	31.74
PNS-0.4-78-SRC6A	22.92	13.31	9.61	5.00	6.07	2.33	3.47	5.44	2.05	0.99	4.65	4.02	1.97	1.97	2.21	1/4" (side conn.)	52.92	31.74
PNS-0.4-122-SRC0A	19.97	10.36	9.61	4.00	7.05	2.33	3.47	5.44	2.05	0.99	4.65	4.02	1.97	1.97	2.21	1/4" (side conn.)	59.53	49.43
PNS-0.4-122-SRC1A	20.87	11.26	9.61	4.00	7.05	2.33	3.47	5.44	2.05	0.99	4.65	4.02	1.97	1.97	2.21	1/4" (side conn.)	59.53	49.43
PNS-0.4-122-SRC2A	20.63	11.03	9.61	4.00	7.05	2.33	3.47	5.44	2.05	0.99	4.65	4.02	1.97	1.97	2.21	1/4" (side conn.)	59.53	49.43
PNS-0.4-122-SRC3A	21.26	11.66	9.61	4.00	7.05	2.33	3.47	5.44	2.05	0.99	4.65	4.02	1.97	1.97	2.21	1/4" (side conn.)	59.53	49.43
PNS-0.4-122-SRC4A	20.87	11.26	9.61	5.00	7.05	2.33	3.47	5.44	2.05	0.99	4.65	4.02	1.97	1.97	2.21	1/4" (side conn.)	59.53	49.43
PNS-0.4-122-SRC5A	21.34	11.74	9.61	5.00	7.05	2.33	3.47	5.44	2.05	0.99	4.65	4.02	1.97	1.97	2.21	1/4" (side conn.)	59.53	49.43
PNS-0.4-122-SRC6A	22.92	13.31	9.61	5.00	7.05	2.33	3.47	5.44	2.05	0.99	4.65	4.02	1.97	1.97	2.21	1/4" (side conn.)	61.73	49.43
PNS-0.4-201-SRC0A	19.97	10.36	9.61	4.00	8.43	2.33	3.47	5.44	2.05	0.99	4.65	4.02	1.97	1.97	2.21	1/4" (side conn.)	68.35	81.17
PNS-0.4-201-SRC1A	20.87	11.26	9.61	4.00	8.43	2.33	3.47	5.44	2.05	0.99	4.65	4.02	1.97	1.97	2.21	1/4" (side conn.)	68.35	81.17
PNS-0.4-201-SRC2A	20.63	11.03	9.61	4.00	8.43	2.33	3.47	5.44	2.05	0.99	4.65	4.02	1.97	1.97	2.21	1/4" (side conn.)	68.35	81.17
PNS-0.4-201-SRC3A	21.26	11.66	9.61	4.00	8.43	2.33	3.47	5.44	2.05	0.99	4.65	4.02	1.97	1.97	2.21	1/4" (side conn.)	68.35	81.17
PNS-0.4-201-SRC4A	20.87	11.26	9.61	5.00	8.43	2.33	3.47	5.44	2.05	0.99	4.65	4.02	1.97	1.97	2.21	1/4" (side conn.)	70.55	81.17
PNS-0.4-201-SRC5A	21.34	11.74	9.61	5.00	8.43	2.33	3.47	5.44	2.05	0.99	4.65	4.02	1.97	1.97	2.21	1/4" (side conn.)	70.55	81.17
PNS-0.4-201-SRC6A	22.92	13.31	9.61	5.00	8.43	2.33	3.47	5.44	2.05	0.99	4.65	4.02	1.97	1.97	2.21	1/4" (side conn.)	72.76	81.17
PNS-0.4-314-SRC0A	19.97	10.36	9.61	4.00	10.00	2.33	3.47	5.44	2.05	0.99	4.65	4.02	1.97	1.97	2.21	1/4" (side conn.)	81.58	126.32
PNS-0.4-314-SRC1A	20.87	11.26	9.61	4.00	10.00	2.33	3.47	5.44	2.05	0.99	4.65	4.02	1.97	1.97	2.21	1/4" (side conn.)	81.58	126.32
PNS-0.4-314-SRC2A	20.63	11.03	9.61	4.00	10.00	2.33	3.47	5.44	2.05	0.99	4.65	4.02	1.97	1.97	2.21	1/4" (side conn.)	81.58	126.32
PNS-0.4-314-SRC3A	21.26	11.66	9.61	4.00	10.00	2.33	3.47	5.44	2.05	0.99	4.65	4.02	1.97	1.97	2.21	1/4" (side conn.)	81.58	126.32
PNS-0.4-314-SRC4A	20.87	11.26	9.61	5.00	10.00	2.33	3.47	5.44	2.05	0.99	4.65	4.02	1.97	1.97	2.21	1/4" (side conn.)	83.78	126.32
PNS-0.4-314-SRC5A	21.34	11.74	9.61	5.00	10.00	2.33	3.47	5.44	2.05	0.99	4.65	4.02	1.97	1.97	2.21	1/4" (side conn.)	83.78	126.32
PNS-0.4-314-SRC6A	22.92	13.31	9.61	5.00	10.00	2.33	3.47	5.44	2.05	0.99	4.65	4.02	1.97	1.97	2.21	1/4" (side conn.)	85.99	126.32



FRAME 1 ASSEMBLIES

Actuator Model	A (in)	B (in)	C (in)	DS (in)	DC (in)	I (in)	J (in)	K (in)	L (in)	M (in)	N (in)	T (in)	U (in)	V (in)	W (in)	X NPT	Weight (lbs)	Swept Volume (cu.in.)
PNS-1-78-DA	17.60	5.40	12.21	N/A	6.07	3.51	5.12	7.09	2.96	1.58	7.01	4.65	2.25	1.97	3.19	1/4" (side conn.)	63.94	50.65
PNS-1-122-DA	17.60	5.40	12.21	N/A	7.05	3.51	5.12	7.09	2.96	1.58	7.01	4.65	2.25	1.97	3.19	1/4" (side conn.)	74.96	79.34
PNS-1-201-DA	17.60	5.40	12.21	N/A	8.43	3.51	5.12	7.09	2.96	1.58	7.01	4.65	2.25	1.97	3.19	1/4" (side conn.)	88.19	129.38
PNS-1-314-DA	17.60	5.40	12.21	N/A	10.00	3.51	5.12	7.09	11.03	1.58	7.01	4.65	2.25	1.97	3.19	1/4" (side conn.)	103.62	202.60
PNS-1-78-SRC1B	26.34	14.14	12.21	4.00	6.07	3.51	5.12	7.09	2.96	1.58	7.01	4.65	2.25	1.97	3.19	1/4" (side conn.)	74.96	50.65
PNS-1-78-SRC2B	25.95	13.75	12.21	4.00	6.07	3.51	5.12	7.09	2.96	1.58	7.01	4.65	2.25	1.97	3.19	1/4" (side conn.)	74.96	50.65
PNS-1-78-SRC3B	26.50	14.30	12.21	4.00	6.07	3.51	5.12	7.09	2.96	1.58	7.01	4.65	2.25	1.97	3.19	1/4" (side conn.)	74.96	50.65
PNS-1-78-SRC4B	26.30	14.10	12.21	5.00	6.07	3.51	5.12	7.09	2.96	1.58	7.01	4.65	2.25	1.97	3.19	1/4" (side conn.)	77.17	50.65
PNS-1-78-SRC5B	34.65	22.45	12.21	6.26	6.07	3.51	5.12	7.09	2.96	1.58	7.01	4.65	2.25	1.97	3.19	1/4" (side conn.)	94.80	50.65
PNS-1-78-SRC6B	26.54	14.34	12.21	5.00	6.07	3.51	5.12	7.09	2.96	1.58	7.01	4.65	2.25	1.97	3.19	1/4" (side conn.)	77.17	50.65
PNS-1-78-SRC7B	29.49	17.29	12.21	5.00	6.07	3.51	5.12	7.09	2.96	1.58	7.01	4.65	2.25	1.97	3.19	1/4" (side conn.)	81.58	50.65
PNS-1-78-SRC8B	28.98	16.78	12.21	5.00	6.07	3.51	5.12	7.09	2.96	1.58	7.01	4.65	2.25	1.97	3.19	1/4" (side conn.)	81.58	50.65
PNS-1-78-SRC9B	28.47	16.26	12.21	5.00	6.07	3.51	5.12	7.09	2.96	1.58	7.01	4.65	2.25	1.97	3.19	1/4" (side conn.)	81.58	50.65
PNS-1-78-SRC10B	31.89	19.69	12.21	8.63	6.07	3.51	5.12	7.09	2.96	1.58	7.01	4.65	2.25	1.97	3.19	1/4" (side conn.)	110.24	50.65
PNS-1-78-SRC11B	30.71	18.51	12.21	5.00	6.07	3.51	5.12	7.09	2.96	1.58	7.01	4.65	2.25	1.97	3.19	1/4" (side conn.)	83.78	50.65
PNS-1-122-SRC1B	26.34	14.14	12.21	4.00	7.05	3.51	5.12	7.09	2.96	1.58	7.01	4.65	2.25	1.97	3.19	1/4" (side conn.)	83.78	79.34
PNS-1-122-SRC2B	25.95	13.75	12.21	4.00	7.05	3.51	5.12	7.09	2.96	1.58	7.01	4.65	2.25	1.97	3.19	1/4" (side conn.)	83.78	79.34
PNS-1-122-SRC3B	26.50	14.30	12.21	4.00	7.05	3.51	5.12	7.09	2.96	1.58	7.01	4.65	2.25	1.97	3.19	1/4" (side conn.)	83.78	79.34
PNS-1-122-SRC4B	26.30	14.10	12.21	5.00	7.05	3.51	5.12	7.09	2.96	1.58	7.01	4.65	2.25	1.97	3.19	1/4" (side conn.)	85.99	79.34
PNS-1-122-SRC5B	34.65	22.45	12.21	6.26	7.05	3.51	5.12	7.09	2.96	1.58	7.01	4.65	2.25	1.97	3.19	1/4" (side conn.)	103.62	79.34
PNS-1-122-SRC6B	26.54	14.34	12.21	5.00	7.05	3.51	5.12	7.09	2.96	1.58	7.01	4.65	2.25	1.97	3.19	1/4" (side conn.)	88.19	79.34
PNS-1-122-SRC7B	29.49	17.29	12.21	5.00	7.05	3.51	5.12	7.09	2.96	1.58	7.01	4.65	2.25	1.97	3.19	1/4" (side conn.)	92.60	79.34
PNS-1-122-SRC8B	28.98	16.78	12.21	5.00	7.05	3.51	5.12	7.09	2.96	1.58	7.01	4.65	2.25	1.97	3.19	1/4" (side conn.)	92.60	79.34
PNS-1-122-SRC9B	28.47	16.26	12.21	5.00	7.05	3.51	5.12	7.09	2.96	1.58	7.01	4.65	2.25	1.97	3.19	1/4" (side conn.)	92.60	79.34
PNS-1-122-SRC10B	31.89	19.69	12.21	8.63	7.05	3.51	5.12	7.09	2.96	1.58	7.01	4.65	2.25	1.97	3.19	1/4" (side conn.)	119.05	79.34
PNS-1-122-SRC11B	30.71	18.51	12.21	5.00	7.05	3.51	5.12	7.09	2.96	1.58	7.01	4.65	2.25	1.97	3.19	1/4" (side conn.)	94.80	79.34
PNS-1-201-SRC1B	26.34	14.14	12.21	4.00	8.43	3.51	5.12	7.09	2.96	1.58	7.01	4.65	2.25	1.97	3.19	1/4" (side conn.)	97.01	129.38
PNS-1-201-SRC2B	25.95	13.75	12.21	4.00	8.43	3.51	5.12	7.09	2.96	1.58	7.01	4.65	2.25	1.97	3.19	1/4" (side conn.)	97.01	129.38
PNS-1-201-SRC3B	26.50	14.30	12.21	4.00	8.43	3.51	5.12	7.09	2.96	1.58	7.01	4.65	2.25	1.97	3.19	1/4" (side conn.)	97.01	129.38
PNS-1-201-SRC4B	26.30	14.10	12.21	5.00	8.43	3.51	5.12	7.09	2.96	1.58	7.01	4.65	2.25	1.97	3.19	1/4" (side conn.)	99.21	129.38
PNS-1-201-SRC5B	34.65	22.45	12.21	6.26	8.43	3.51	5.12	7.09	2.96	1.58	7.01	4.65	2.25	1.97	3.19	1/4" (side conn.)	116.85	129.38
PNS-1-201-SRC6B	26.54	14.34	12.21	5.00	8.43	3.51	5.12	7.09	2.96	1.58	7.01	4.65	2.25	1.97	3.19	1/4" (side conn.)	101.42	129.38
PNS-1-201-SRC7B	29.49	17.29	12.21	5.00	8.43	3.51	5.12	7.09	2.96	1.58	7.01	4.65	2.25	1.97	3.19	1/4" (side conn.)	105.83	129.38
PNS-1-201-SRC8B	28.98	16.78	12.21	5.00	8.43	3.51	5.12	7.09	2.96	1.58	7.01	4.65	2.25	1.97	3.19	1/4" (side conn.)	105.83	129.38
PNS-1-201-SRC9B	28.47	16.26	12.21	5.00	8.43	3.51	5.12	7.09	2.96	1.58	7.01	4.65	2.25	1.97	3.19	1/4" (side conn.)	105.83	129.38
PNS-1-201-SRC10B	31.89	19.69	12.21	8.63	8.43	3.51	5.12	7.09	2.96	1.58	7.01	4.65	2.25	1.97	3.19	1/4" (side conn.)	132.28	129.38
PNS-1-201-SRC11B	30.71	18.51	12.21	5.00	8.43	3.51	5.12	7.09	2.96	1.58	7.01	4.65	2.25	1.97	3.19	1/4" (side conn.)	108.03	129.38
PNS-1-314-SRC1B	26.34	14.14	12.21	4.00	10.00	3.51	5.12	7.09	2.96	1.58	7.01	4.65	2.25	1.97	3.19	1/4" (side conn.)	112.44	202.60
PNS-1-314-SRC2B	25.95	13.75	12.21	4.00	10.00	3.51	5.12	7.09	2.96	1.58	7.01	4.65	2.25	1.97	3.19	1/4" (side conn.)	112.44	202.60
PNS-1-314-SRC3B	26.50	14.30	12.21	4.00	10.00	3.51	5.12	7.09	2.96	1.58	7.01	4.65	2.25	1.97	3.19	1/4" (side conn.)	112.44	202.60
PNS-1-314-SRC4B	26.30	14.10	12.21	5.00	10.00	3.51	5.12	7.09	2.96	1.58	7.01	4.65	2.25	1.97	3.19	1/4" (side conn.)	114.65	202.60
PNS-1-314-SRC5B	34.65	22.45	12.21	6.26	10.00	3.51	5.12	7.09	2.96	1.58	7.01	4.65	2.25	1.97	3.19	1/4" (side conn.)	132.28	202.60
PNS-1-314-SRC6B	26.54	14.34	12.21	5.00	10.00	3.51	5.12	7.09	2.96	1.58	7.01	4.65	2.25	1.97	3.19	1/4" (side conn.)	116.85	202.60
PNS-1-314-SRC7B	29.49	17.29	12.21	5.00	10.00	3.51	5.12	7.09	2.96	1.58	7.01	4.65	2.25	1.97	3.19	1/4" (side conn.)	121.26	202.60
PNS-1-314-SRC8B	28.98	16.78	12.21	5.00	10.00	3.51	5.12	7.09	2.96	1.58	7.01	4.65	2.25	1.97	3.19	1/4" (side conn.)	121.26	202.60
PNS-1-314-SRC9B	28.47	16.26	12.21	5.00	10.00	3.51	5.12	7.09	2.96	1.58	7.01	4.65	2.25	1.97	3.19	1/4" (side conn.)	121.26	202.60
PNS-1-314-SRC10B	31.89	19.69	12.21	8.63	10.00	3.51	5.12	7.09	2.96	1.58	7.01	4.65	2.25	1.97	3.19	1/4" (side conn.)	147.71	202.60
PNS-1-314-SRC11B	30.71	18.51	12.21	5.00	10.00	3.51	5.12	7.09	2.96	1.58	7.01	4.65	2.25	1.97	3.19	1/4" (side conn.)	123.46	202.60

OPEN

FRAME 2 ASSEMBLIES

Actuator Model	A (in)	B (in)	C (in)	DS (in)	DC (in)	I (in)	J (in)	K (in)	L (in)	M (in)	N (in)	T (in)	U (in)	V (in)	W (in)	X (NPT)	Weight (lbs)	Swept Volume (cu.in.)
PNS-2-201-DA	19.41	5.83	13.59	N/A	8.43	3.90	5.52	7.49	3.55	1.97	7.80	4.65	2.25	1.97	3.78	1/4" (side conn.)	99.21	161.72
PNS-2-314-DA	19.41	5.83	13.59	N/A	10.00	3.90	5.52	7.49	3.55	1.97	7.80	4.65	2.25	1.97	3.78	1/4" (side conn.)	119.05	253.25
PNS-2-433-DA	19.41	5.83	13.59	N/A	11.82	3.90	5.52	7.49	3.55	1.97	7.80	4.65	2.25	1.97	3.78	1/4" (side conn.)	145.51	349.67
PNS-2-615-DA	19.41	5.83	13.59	N/A	13.63	3.90	5.52	7.49	11.03	1.97	7.80	4.65	2.25	1.97	3.78	1/4" (side conn.)	174.17	496.13
PNS-2-201-SRC1E	28.98	15.40	13.59	4.00	8.43	3.90	5.52	7.49	3.55	1.97	7.80	4.65	2.25	1.97	3.78	1/4" (side conn.)	108.03	161.72
PNS-2-201-SRC2E	28.55	14.97	13.59	4.00	8.43	3.90	5.52	7.49	3.55	1.97	7.80	4.65	2.25	1.97	3.78	1/4" (side conn.)	108.03	161.72
PNS-2-201-SRC3E	29.18	15.60	13.59	4.00	8.43	3.90	5.52	7.49	3.55	1.97	7.80	4.65	2.25	1.97	3.78	1/4" (side conn.)	108.03	161.72
PNS-2-201-SRC4E	28.78	15.20	13.59	5.00	8.43	3.90	5.52	7.49	3.55	1.97	7.80	4.65	2.25	1.97	3.78	1/4" (side conn.)	110.24	161.72
PNS-2-201-SRC5E	36.93	23.35	13.59	6.26	8.43	3.90	5.52	7.49	3.55	1.97	7.80	4.65	2.25	1.97	3.78	1/4" (side conn.)	130.08	161.72
PNS-2-201-SRC6E	35.75	22.17	13.59	6.26	8.43	3.90	5.52	7.49	3.55	1.97	7.80	4.65	2.25	1.97	3.78	1/4" (side conn.)	127.87	161.72
PNS-2-201-SRC7E	30.83	17.25	13.59	5.00	8.43	3.90	5.52	7.49	3.55	1.97	7.80	4.65	2.25	1.97	3.78	1/4" (side conn.)	116.85	161.72
PNS-2-201-SRC8E	34.38	20.79	13.59	8.63	8.43	3.90	5.52	7.49	3.55	1.97	7.80	4.65	2.25	1.97	3.78	1/4" (side conn.)	158.74	161.72
PNS-2-201-SRC9E	32.96	19.38	13.59	5.00	8.43	3.90	5.52	7.49	3.55	1.97	7.80	4.65	2.25	1.97	3.78	1/4" (side conn.)	121.26	161.72
PNS-2-201-SRC10E	31.15	17.56	13.59	8.63	8.43	3.90	5.52	7.49	3.55	1.97	7.80	4.65	2.25	1.97	3.78	1/4" (side conn.)	147.71	161.72
PNS-2-201-SRC11E	33.67	20.08	13.59	8.00	8.43	3.90	5.52	7.49	3.55	1.97	7.80	4.65	2.25	1.97	3.78	1/4" (side conn.)	163.15	161.72
PNS-2-314-SRC1E	28.98	15.40	13.59	4.00	10.00	3.90	5.52	7.49	3.55	1.97	7.80	4.65	2.25	1.97	3.78	1/4" (side conn.)	127.87	253.25
PNS-2-314-SRC2E	28.55	14.97	13.59	4.00	10.00	3.90	5.52	7.49	3.55	1.97	7.80	4.65	2.25	1.97	3.78	1/4" (side conn.)	127.87	253.25
PNS-2-314-SRC3E	29.18	15.60	13.59	4.00	10.00	3.90	5.52	7.49	3.55	1.97	7.80	4.65	2.25	1.97	3.78	1/4" (side conn.)	127.87	253.25
PNS-2-314-SRC4E	28.78	15.20	13.59	5.00	10.00	3.90	5.52	7.49	3.55	1.97	7.80	4.65	2.25	1.97	3.78	1/4" (side conn.)	130.08	253.25
PNS-2-314-SRC5E	36.93	23.35	13.59	6.26	10.00	3.90	5.52	7.49	3.55	1.97	7.80	4.65	2.25	1.97	3.78	1/4" (side conn.)	149.92	253.25
PNS-2-314-SRC6E	35.75	22.17	13.59	6.26	10.00	3.90	5.52	7.49	3.55	1.97	7.80	4.65	2.25	1.97	3.78	1/4" (side conn.)	147.71	253.25
PNS-2-314-SRC7E	30.83	17.25	13.59	5.00	10.00	3.90	5.52	7.49	3.55	1.97	7.80	4.65	2.25	1.97	3.78	1/4" (side conn.)	136.69	253.25
PNS-2-314-SRC8E	34.38	20.79	13.59	8.63	10.00	3.90	5.52	7.49	3.55	1.97	7.80	4.65	2.25	1.97	3.78	1/4" (side conn.)	178.58	253.25
PNS-2-314-SRC9E	32.96	19.38	13.59	5.00	10.00	3.90	5.52	7.49	3.55	1.97	7.80	4.65	2.25	1.97	3.78	1/4" (side conn.)	141.10	253.25
PNS-2-314-SRC10E	31.15	17.56	13.59	8.63	10.00	3.90	5.52	7.49	3.55	1.97	7.80	4.65	2.25	1.97	3.78	1/4" (side conn.)	167.56	253.25
PNS-2-314-SRC11E	33.67	20.08	13.59	8.00	10.00	3.90	5.52	7.49	3.55	1.97	7.80	4.65	2.25	1.97	3.78	1/4" (side conn.)	182.99	253.25
PNS-2-433-SRC1E	28.98	15.40	13.59	4.00	11.82	3.90	5.52	7.49	3.55	1.97	7.80	4.65	2.25	1.97	3.78	1/4" (side conn.)	154.33	349.67
PNS-2-433-SRC2E	28.55	14.97	13.59	4.00	11.82	3.90	5.52	7.49	3.55	1.97	7.80	4.65	2.25	1.97	3.78	1/4" (side conn.)	154.33	349.67
PNS-2-433-SRC3E	29.18	15.60	13.59	4.00	11.82	3.90	5.52	7.49	3.55	1.97	7.80	4.65	2.25	1.97	3.78	1/4" (side conn.)	154.33	349.67
PNS-2-433-SRC4E	28.78	15.20	13.59	5.00	11.82	3.90	5.52	7.49	3.55	1.97	7.80	4.65	2.25	1.97	3.78	1/4" (side conn.)	156.53	349.67
PNS-2-433-SRC5E	36.93	23.35	13.59	6.26	11.82	3.90	5.52	7.49	3.55	1.97	7.80	4.65	2.25	1.97	3.78	1/4" (side conn.)	176.37	349.67
PNS-2-433-SRC6E	35.75	22.17	13.59	6.26	11.82	3.90	5.52	7.49	3.55	1.97	7.80	4.65	2.25	1.97	3.78	1/4" (side conn.)	174.17	349.67
PNS-2-433-SRC7E	30.83	17.25	13.59	5.00	11.82	3.90	5.52	7.49	3.55	1.97	7.80	4.65	2.25	1.97	3.78	1/4" (side conn.)	163.15	349.67
PNS-2-433-SRC8E	34.38	20.79	13.59	8.63	11.82	3.90	5.52	7.49	3.55	1.97	7.80	4.65	2.25	1.97	3.78	1/4" (side conn.)	205.03	349.67
PNS-2-433-SRC9E	32.96	19.38	13.59	5.00	11.82	3.90	5.52	7.49	3.55	1.97	7.80	4.65	2.25	1.97	3.78	1/4" (side conn.)	165.35	349.67
PNS-2-433-SRC10E	31.15	17.56	13.59	8.63	11.82	3.90	5.52	7.49	3.55	1.97	7.80	4.65	2.25	1.97	3.78	1/4" (side conn.)	194.01	349.67
PNS-2-433-SRC11E	33.67	20.08	13.59	8.00	11.82	3.90	5.52	7.49	3.55	1.97	7.80	4.65	2.25	1.97	3.78	1/4" (side conn.)	207.24	349.67
PNS-2-615-SRC1E	28.98	15.40	13.59	4.00	13.63	3.90	5.52	7.49	3.55	1.97	7.80	4.65	2.25	1.97	3.78	1/4" (side conn.)	185.19	496.13
PNS-2-615-SRC2E	28.55	14.97	13.59	4.00	13.63	3.90	5.52	7.49	3.55	1.97	7.80	4.65	2.25	1.97	3.78	1/4" (side conn.)	185.19	496.13
PNS-2-615-SRC3E	29.18	15.60	13.59	4.00	13.63	3.90	5.52	7.49	3.55	1.97	7.80	4.65	2.25	1.97	3.78	1/4" (side conn.)	185.19	496.13
PNS-2-615-SRC4E	28.78	15.20	13.59	5.00	13.63	3.90	5.52	7.49	3.55	1.97	7.80	4.65	2.25	1.97	3.78	1/4" (side conn.)	185.19	496.13
PNS-2-615-SRC5E	36.93	23.35	13.59	6.26	13.63	3.90	5.52	7.49	3.55	1.97	7.80	4.65	2.25	1.97	3.78	1/4" (side conn.)	205.03	496.13
PNS-2-615-SRC6E	35.75	22.17	13.59	6.26	13.63	3.90	5.52	7.49	3.55	1.97	7.80	4.65	2.25	1.97	3.78	1/4" (side conn.)	205.03	496.13
PNS-2-615-SRC7E	30.83	17.25	13.59	5.00	13.63	3.90	5.52	7.49	3.55	1.97	7.80	4.65	2.25	1.97	3.78	1/4" (side conn.)	191.81	496.13
PNS-2-615-SRC8E	34.38	20.79	13.59	8.63	13.63	3.90	5.52	7.49	3.55	1.97	7.80	4.65	2.25	1.97	3.78	1/4" (side conn.)	233.69	496.13
PNS-2-615-SRC9E	32.96	19.38	13.59	5.00	13.63	3.90	5.52	7.49	3.55	1.97	7.80	4.65	2.25	1.97	3.78	1/4" (side conn.)	196.22	496.13
PNS-2-615-SRC10E	31.15	17.56	13.59	8.63	13.63	3.90	5.52	7.49	3.55	1.97	7.80	4.65	2.25	1.97	3.78	1/4" (side conn.)	224.88	496.13
PNS-2-615-SRC11E	33.67	20.08	13.59	8.00	13.63	3.90	5.52	7.49	3.55	1.97	7.80	4.65	2.25	1.97	3.78	1/4" (side conn.)	238.10	496.13

OPEN

FRAME 8 ASSEMBLIES

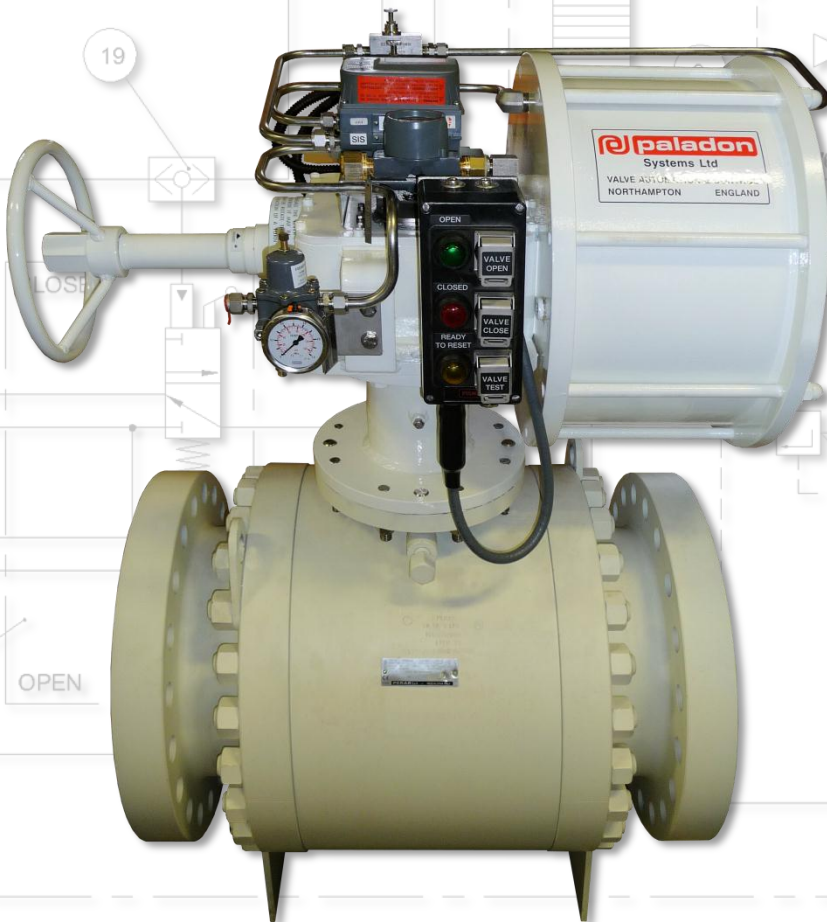
Actuator Model	A (in)	B (in)	C (in)	DS (in)	DC (in)	I (in)	J (in)	K (in)	L (in)	M (in)	N (in)	T (in)	U (in)	V (in)	W (in)	X NPT	Weight (lbs)	Swept Volume (cu.in.)
PNS-8-314-DA	27.45	9.14	18.31	N/A	10.00	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	207.24	364.93
PNS-8-433-DA	27.45	9.14	18.31	N/A	11.82	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	251.33	503.45
PNS-8-615-DA	28.55	9.14	19.41	N/A	14.06	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	282.20	715.20
PNS-8-804-DA	28.55	9.14	19.41	N/A	15.79	5.87	8.47	11.23	11.03	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	324.08	933.67
PNS-8-1256-DA	29.69	9.14	20.56	N/A	18.98	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	3/4" (end conn.)	509.27	1459.08
PNS-8-1590-DA	29.69	9.14	20.56	N/A	20.95	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	3/4" (end conn.)	619.50	1847.19
PNS-8-2290-DA	29.93	9.14	20.79	N/A	25.20	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	3/4" (end conn.)	855.40	2659.42
PNS-8-314-SRC1F	43.23	24.93	18.31	6.26	10.00	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	240.31	364.93
PNS-8-314-SRC2F	41.70	23.39	18.31	6.26	10.00	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	238.10	364.93
PNS-8-314-SRC3F	42.21	23.90	18.31	8.63	10.00	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	271.17	364.93
PNS-8-314-SRC4F	42.21	23.90	18.31	8.63	10.00	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	273.38	364.93
PNS-8-314-SRC5F	45.12	26.82	18.31	8.00	10.00	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	277.79	364.93
PNS-8-314-SRC6F	49.18	30.87	18.31	8.00	10.00	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	306.45	364.93
PNS-8-314-SRC7F	47.72	29.41	18.31	8.00	10.00	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	302.04	364.93
PNS-8-314-SRC8F	55.40	37.09	18.31	10.00	10.00	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	445.34	364.93
PNS-8-314-SRC9F	53.47	35.16	18.31	10.00	10.00	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	425.50	364.93
PNS-8-314-SRC10F (E)	46.66	28.35	18.31	16.50	10.00	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	604.07	364.93
PNS-8-314-SRC10F (H)	56.30	38.00	18.31	11.76	10.00	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	504.86	364.93
PNS-8-314-SRC11F	53.75	35.44	18.31	11.76	10.00	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	377.00	364.93
PNS-8-314-SRC12F	48.43	30.12	18.31	11.76	10.00	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	388.02	364.93
PNS-8-314-SRC13F	57.68	39.38	18.31	13.78	10.00	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	504.86	364.93
PNS-8-314-SRC14F	66.54	48.23	18.31	16.50	10.00	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	961.22	364.93
PNS-8-314-SRC15F (E)	53.94	35.63	18.31	16.50	10.00	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	650.37	364.93
PNS-8-314-SRC15F (H)	63.59	45.28	18.31	13.51	10.00	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	663.60	364.93
PNS-8-314-SRC16F	50.95	32.64	18.31	16.50	10.00	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	634.94	364.93
PNS-8-433-SRC1F	43.23	24.93	18.31	6.26	11.82	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	282.20	503.45
PNS-8-433-SRC2F	41.70	23.39	18.31	6.26	11.82	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	282.20	503.45
PNS-8-433-SRC3F	42.21	23.90	18.31	8.63	11.82	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	315.27	503.45
PNS-8-433-SRC4F	42.21	23.90	18.31	8.63	11.82	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	317.47	503.45
PNS-8-433-SRC5F	45.12	26.82	18.31	8.00	11.82	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	321.88	503.45
PNS-8-433-SRC6F	49.18	30.87	18.31	8.00	11.82	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	350.54	503.45
PNS-8-433-SRC7F	47.72	29.41	18.31	8.00	11.82	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	343.93	503.45
PNS-8-433-SRC8F	55.40	37.09	18.31	10.00	11.82	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	489.43	503.45
PNS-8-433-SRC9F	53.47	35.16	18.31	10.00	11.82	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	469.59	503.45
PNS-8-433-SRC10F (E)	46.66	28.35	18.31	16.50	11.82	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	648.16	503.45
PNS-8-433-SRC10F (H)	56.30	38.00	18.31	11.76	11.82	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	548.96	503.45
PNS-8-433-SRC11F	53.75	35.44	18.31	11.76	11.82	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	418.88	503.45
PNS-8-433-SRC12F	48.43	30.12	18.31	11.76	11.82	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	432.11	503.45
PNS-8-433-SRC13F	57.68	39.38	18.31	13.78	11.82	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	548.96	503.45
PNS-8-433-SRC14F	66.54	48.23	18.31	16.50	11.82	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	1005.31	503.45
PNS-8-433-SRC15F (E)	53.94	35.63	18.31	16.50	11.82	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	692.26	503.45
PNS-8-433-SRC15F (H)	63.59	45.28	18.31	13.51	11.82	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	707.69	503.45
PNS-8-433-SRC16F	50.95	32.64	18.31	16.50	11.82	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	676.82	503.45
PNS-8-615-SRC1F	44.34	24.93	19.41	6.26	14.06	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	315.27	715.20
PNS-8-615-SRC2F	42.80	23.39	19.41	6.26	14.06	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	313.06	715.20
PNS-8-615-SRC3F	43.31	23.90	19.41	8.63	14.06	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	346.13	715.20
PNS-8-615-SRC4F	43.31	23.90	19.41	8.63	14.06	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	348.34	715.20
PNS-8-615-SRC5F	46.23	26.82	19.41	8.00	14.06	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	352.74	715.20
PNS-8-615-SRC6F	50.28	30.87	19.41	8.00	14.06	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	381.40	715.20
PNS-8-615-SRC7F	48.82	29.41	19.41	8.00	14.06	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	377.00	715.20
PNS-8-615-SRC8F	56.50	37.09	19.41	10.00	14.06	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	520.30	715.20
PNS-8-615-SRC9F	54.57	35.16	19.41	10.00	14.06	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	500.45	715.20
PNS-8-615-SRC10F (E)	47.76	28.35	19.41	16.50	14.06	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	679.03	715.20
PNS-8-615-SRC10F (H)	57.41	38.00	19.41	11.76	14.06	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	579.82	715.20
PNS-8-615-SRC11F	54.85	35.44	19.41	11.76	14.06	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	451.95	715.20

FRAME 8 ASSEMBLIES – CONT.

Actuator Model	A (in)	B (in)	C (in)	DS (in)	DC (in)	I (in)	J (in)	K (in)	L (in)	M (in)	N (in)	T (in)	U (in)	V (in)	W (in)	X NPT	Weight (lbs)	Swept Volume (cu.in.)
PNS-8-615-SRC12F	49.53	30.12	19.41	11.76	14.06	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	462.98	715.20
PNS-8-615-SRC13F	58.78	39.38	19.41	13.78	14.06	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	579.82	715.20
PNS-8-615-SRC14F	67.64	48.23	19.41	16.50	14.06	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	1036.18	715.20
PNS-8-615-SRC15F (E)	55.04	35.63	19.41	16.50	14.06	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	725.33	715.20
PNS-8-615-SRC15F (H)	64.69	45.28	19.41	13.51	14.06	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	738.55	715.20
PNS-8-615-SRC16F	52.05	32.64	19.41	16.50	14.06	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	709.89	715.20
PNS-8-804-SRC1F	44.34	24.93	19.41	6.26	15.79	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	357.15	933.67
PNS-8-804-SRC2F	42.80	23.39	19.41	6.26	15.79	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	354.95	933.67
PNS-8-804-SRC3F	43.31	23.90	19.41	8.63	15.79	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	388.02	933.67
PNS-8-804-SRC4F	43.31	23.90	19.41	8.63	15.79	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	390.22	933.67
PNS-8-804-SRC5F	46.23	26.82	19.41	8.00	15.79	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	394.63	933.67
PNS-8-804-SRC6F	50.28	30.87	19.41	8.00	15.79	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	423.29	933.67
PNS-8-804-SRC7F	48.82	29.41	19.41	8.00	15.79	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	418.88	933.67
PNS-8-804-SRC8F	56.50	37.09	19.41	10.00	15.79	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	562.18	933.67
PNS-8-804-SRC9F	54.57	35.16	19.41	10.00	15.79	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	542.34	933.67
PNS-8-804-SRC10F (E)	47.76	28.35	19.41	16.50	15.79	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	720.92	933.67
PNS-8-804-SRC10F (H)	57.41	38.00	19.41	11.76	15.79	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	621.71	933.67
PNS-8-804-SRC11F	54.85	35.44	19.41	11.76	15.79	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	493.84	933.67
PNS-8-804-SRC12F	49.53	30.12	19.41	11.76	15.79	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	504.86	933.67
PNS-8-804-SRC13F	58.78	39.38	19.41	13.78	15.79	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	621.71	933.67
PNS-8-804-SRC14F	67.64	48.23	19.41	16.50	15.79	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	1078.07	933.67
PNS-8-804-SRC15F (E)	55.04	35.63	19.41	16.50	15.79	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	767.21	933.67
PNS-8-804-SRC15F (H)	64.69	45.28	19.41	13.51	15.79	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	780.44	933.67
PNS-8-804-SRC16F	52.05	32.64	19.41	16.50	15.79	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	1/2" (side conn.)	751.78	933.67
PNS-8-1256-SRC1F	45.48	24.93	20.56	6.26	18.98	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	3/4" (end conn.)	540.14	1459.08
PNS-8-1256-SRC2F	43.94	23.39	20.56	6.26	18.98	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	3/4" (end conn.)	537.93	1459.08
PNS-8-1256-SRC3F	44.45	23.90	20.56	8.63	18.98	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	3/4" (end conn.)	573.21	1459.08
PNS-8-1256-SRC4F	44.45	23.90	20.56	8.63	18.98	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	3/4" (end conn.)	575.41	1459.08
PNS-8-1256-SRC5F	47.37	26.82	20.56	8.00	18.98	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	3/4" (end conn.)	577.62	1459.08
PNS-8-1256-SRC6F	51.42	30.87	20.56	8.00	18.98	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	3/4" (end conn.)	608.48	1459.08
PNS-8-1256-SRC7F	49.97	29.41	20.56	8.00	18.98	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	3/4" (end conn.)	601.87	1459.08
PNS-8-1256-SRC8F	57.64	37.09	20.56	10.00	18.98	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	3/4" (end conn.)	747.37	1459.08
PNS-8-1256-SRC9F	55.71	35.16	20.56	10.00	18.98	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	3/4" (end conn.)	727.53	1459.08
PNS-8-1256-SRC10F (E)	48.90	28.35	20.56	16.50	18.98	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	3/4" (end conn.)	906.10	1459.08
PNS-8-1256-SRC10F (H)	58.55	38.00	20.56	11.76	18.98	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	3/4" (end conn.)	806.90	1459.08
PNS-8-1256-SRC11F	55.99	35.44	20.56	11.76	18.98	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	3/4" (end conn.)	676.82	1459.08
PNS-8-1256-SRC12F	50.67	30.12	20.56	11.76	18.98	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	3/4" (end conn.)	690.05	1459.08
PNS-8-1256-SRC13F	59.93	39.38	20.56	13.78	18.98	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	3/4" (end conn.)	806.90	1459.08
PNS-8-1256-SRC14F	68.78	48.23	20.56	16.50	18.98	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	3/4" (end conn.)	1261.05	1459.08
PNS-8-1256-SRC15F (E)	56.19	35.63	20.56	16.50	18.98	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	3/4" (end conn.)	950.20	1459.08
PNS-8-1256-SRC15F (H)	65.83	45.28	20.56	13.51	18.98	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	3/4" (end conn.)	965.63	1459.08
PNS-8-1256-SRC16F	53.19	32.64	20.56	16.50	18.98	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	3/4" (end conn.)	934.76	1459.08
PNS-8-1590-SRC1F	45.48	24.93	20.56	6.26	20.95	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	3/4" (end conn.)	652.57	1847.19
PNS-8-1590-SRC2F	43.94	23.39	20.56	6.26	20.95	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	3/4" (end conn.)	650.37	1847.19
PNS-8-1590-SRC3F	44.45	23.90	20.56	8.63	20.95	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	3/4" (end conn.)	683.44	1847.19
PNS-8-1590-SRC4F	44.45	23.90	20.56	8.63	20.95	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	3/4" (end conn.)	685.64	1847.19
PNS-8-1590-SRC5F	47.37	26.82	20.56	8.00	20.95	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	3/4" (end conn.)	690.05	1847.19
PNS-8-1590-SRC6F	51.42	30.87	20.56	8.00	20.95	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	3/4" (end conn.)	718.71	1847.19
PNS-8-1590-SRC7F	49.97	29.41	20.56	8.00	20.95	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	3/4" (end conn.)	712.10	1847.19
PNS-8-1590-SRC8F	57.64	37.09	20.56	10.00	20.95	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	3/4" (end conn.)	857.60	1847.19
PNS-8-1590-SRC9F	55.71	35.16	20.56	10.00	20.95	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	3/4" (end conn.)	837.76	1847.19
PNS-8-1590-SRC10F (E)	48.90	28.35	20.56	16.50	20.95	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	3/4" (end conn.)	1016.34	1847.19
PNS-8-1590-SRC10F (H)	58.55	38.00	20.56	11.76	20.95	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	3/4" (end conn.)	917.13	1847.19
PNS-8-1590-SRC11F	55.99	35.44	20.56	11.76	20.95	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	3/4" (end conn.)	789.26	1847.19
PNS-8-1590-SRC12F	50.67	30.12	20.56	11.76	20.95	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	3/4" (end conn.)	800.28	1847.19

FRAME 8 ASSEMBLIES – CONT.

Actuator Model	A (in)	B (in)	C (in)	DS (in)	DC (in)	I (in)	J (in)	K (in)	L (in)	M (in)	N (in)	T (in)	U (in)	V (in)	W (in)	X NPT	Weight (lbs)	Swept Volume (cu.in.)
PNS-8-1590-SRC13F	59.93	39.38	20.56	13.78	20.95	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	3/4" (end conn.)	917.13	1847.19
PNS-8-1590-SRC14F	68.78	48.23	20.56	16.50	20.95	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	3/4" (end conn.)	1373.48	1847.19
PNS-8-1590-SRC15F (E)	56.19	35.63	20.56	16.50	20.95	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	3/4" (end conn.)	1062.63	1847.19
PNS-8-1590-SRC15F (H)	65.83	45.28	20.56	13.51	20.95	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	3/4" (end conn.)	1075.86	1847.19
PNS-8-1590-SRC16F	53.19	32.64	20.56	16.50	20.95	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	3/4" (end conn.)	1045.00	1847.19
PNS-8-2290-SRC1F	45.71	24.93	20.79	6.26	25.20	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	3/4" (end conn.)	888.47	2659.42
PNS-8-2290-SRC2F	44.18	23.39	20.79	6.26	25.20	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	3/4" (end conn.)	886.26	2659.42
PNS-8-2290-SRC3F	44.69	23.90	20.79	8.63	25.20	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	3/4" (end conn.)	919.33	2659.42
PNS-8-2290-SRC4F	44.69	23.90	20.79	8.63	25.20	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	3/4" (end conn.)	921.54	2659.42
PNS-8-2290-SRC5F	47.60	26.82	20.79	8.00	25.20	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	3/4" (end conn.)	925.95	2659.42
PNS-8-2290-SRC6F	51.66	30.87	20.79	8.00	25.20	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	3/4" (end conn.)	954.61	2659.42
PNS-8-2290-SRC7F	50.20	29.41	20.79	8.00	25.20	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	3/4" (end conn.)	947.99	2659.42
PNS-8-2290-SRC8F	57.88	37.09	20.79	10.00	25.20	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	3/4" (end conn.)	1093.50	2659.42
PNS-8-2290-SRC9F	55.95	35.16	20.79	10.00	25.20	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	3/4" (end conn.)	1073.66	2659.42
PNS-8-2290-SRC10F (E)	49.14	28.35	20.79	16.50	25.20	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	3/4" (end conn.)	1252.23	2659.42
PNS-8-2290-SRC10F (H)	58.78	38.00	20.79	11.76	25.20	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	3/4" (end conn.)	1153.02	2659.42
PNS-8-2290-SRC11F	56.23	35.44	20.79	11.76	25.20	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	3/4" (end conn.)	1025.15	2659.42
PNS-8-2290-SRC12F	50.91	30.12	20.79	11.76	25.20	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	3/4" (end conn.)	1036.18	2659.42
PNS-8-2290-SRC13F	60.16	39.38	20.79	13.78	25.20	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	3/4" (end conn.)	1153.02	2659.42
PNS-8-2290-SRC14F	69.02	48.23	20.79	16.50	25.20	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	3/4" (end conn.)	1609.38	2659.42
PNS-8-2290-SRC15F (E)	56.42	35.63	20.79	16.50	25.20	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	3/4" (end conn.)	1298.53	2659.42
PNS-8-2290-SRC15F (H)	66.07	45.28	20.79	13.51	25.20	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	3/4" (end conn.)	1311.76	2659.42
PNS-8-2290-SRC16F	53.43	32.64	20.79	16.50	25.20	5.87	8.47	11.23	5.91	2.96	11.74	6.30	3.08	2.76	6.26	3/4" (end conn.)	1280.89	2659.42



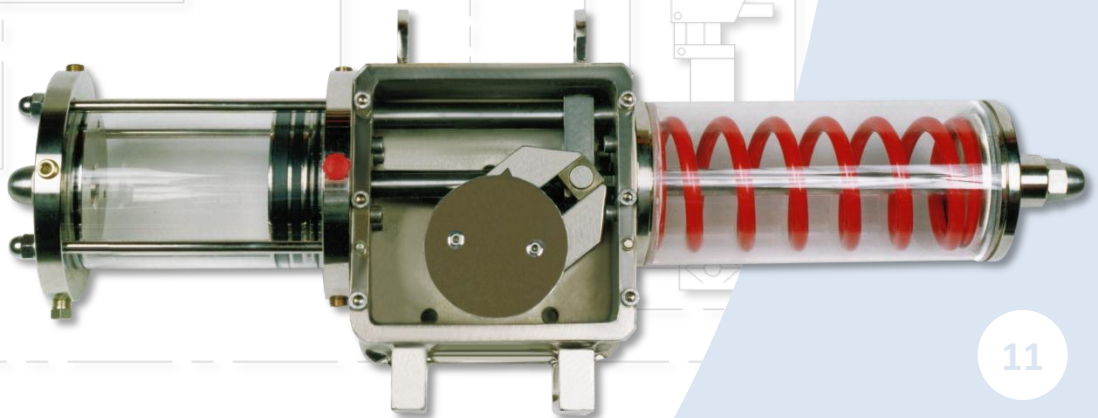
FRAME 16 ASSEMBLIES

Actuator Model	A (in)	B (in)	C (in)	DS (in)	DC (in)	I (in)	J (in)	K (in)	L (in)	M (in)	N (in)	T (in)	U (in)	V (in)	W (in)	X NPT	Weight (lbs)	Swept Volume (cu.in.)
PNS-16-615-DA	38.59	12.05	26.54	N/A	14.06	9.57	11.23	13.98	7.49	3.94	18.35	7.49	3.55	2.76	7.64	1/2" (side conn.)	445.34	1074.63
PNS-16-804-DA	38.59	12.05	26.54	N/A	15.79	9.57	11.23	13.98	7.49	3.94	18.35	7.49	3.55	2.76	7.64	1/2" (side conn.)	478.41	1403.55
PNS-16-1590-DA	39.65	12.05	27.60	N/A	20.95	9.57	11.23	13.98	7.49	3.94	18.35	7.49	3.55	2.76	7.64	3/4" (end conn.)	789.26	2775.98
PNS-16-2290-DA	41.82	12.05	29.77	N/A	25.20	9.57	11.23	13.98	11.03	3.94	18.35	7.49	3.55	2.76	7.64	3/4" (end conn.)	1031.77	3997.06
PNS-16-615-SRC1G	62.60	36.07	26.54	11.76	14.06	9.57	11.23	13.98	7.49	3.94	18.35	7.49	3.55	2.76	7.64	1/2" (side conn.)	634.94	1074.63
PNS-16-615-SRC2G	65.91	39.38	26.54	13.78	14.06	9.57	11.23	13.98	7.49	3.94	18.35	7.49	3.55	2.76	7.64	1/2" (side conn.)	747.37	1074.63
PNS-16-615-SRC3G (E)	77.72	51.19	26.54	16.50	14.06	9.57	11.23	13.98	7.49	3.94	18.35	7.49	3.55	2.76	7.64	1/2" (side conn.)	1199.32	1074.63
PNS-16-615-SRC3G (H)	93.27	66.74	26.54	13.51	14.06	9.57	11.23	13.98	7.49	3.94	18.35	7.49	3.55	2.76	7.64	1/2" (side conn.)	1159.64	1074.63
PNS-16-615-SRC4G (E)	65.08	38.55	26.54	16.50	14.06	9.57	11.23	13.98	7.49	3.94	18.35	7.49	3.55	2.76	7.64	1/2" (side conn.)	890.67	1074.63
PNS-16-615-SRC4G (H)	74.77	48.23	26.54	13.51	14.06	9.57	11.23	13.98	7.49	3.94	18.35	7.49	3.55	2.76	7.64	1/2" (side conn.)	910.51	1074.63
PNS-16-615-SRC5G	77.72	51.19	26.54	20.00	14.06	9.57	11.23	13.98	7.49	3.94	18.35	7.49	3.55	2.76	7.64	1/2" (side conn.)	941.38	1074.63
PNS-16-804-SRC1G	62.60	36.07	26.54	11.76	15.79	9.57	11.23	13.98	7.49	3.94	18.35	7.49	3.55	2.76	7.64	1/2" (side conn.)	668.01	1403.55
PNS-16-804-SRC2G	65.91	39.38	26.54	13.78	15.79	9.57	11.23	13.98	7.49	3.94	18.35	7.49	3.55	2.76	7.64	1/2" (side conn.)	780.44	1403.55
PNS-16-804-SRC3G (E)	77.72	51.19	26.54	16.50	15.79	9.57	11.23	13.98	7.49	3.94	18.35	7.49	3.55	2.76	7.64	1/2" (side conn.)	1232.39	1403.55
PNS-16-804-SRC3G (H)	93.27	66.74	26.54	13.51	15.79	9.57	11.23	13.98	7.49	3.94	18.35	7.49	3.55	2.76	7.64	1/2" (side conn.)	1192.71	1403.55
PNS-16-804-SRC4G (E)	65.08	38.55	26.54	16.50	15.79	9.57	11.23	13.98	7.49	3.94	18.35	7.49	3.55	2.76	7.64	1/2" (side conn.)	925.95	1403.55
PNS-16-804-SRC4G (H)	74.77	48.23	26.54	13.51	15.79	9.57	11.23	13.98	7.49	3.94	18.35	7.49	3.55	2.76	7.64	1/2" (side conn.)	945.79	1403.55
PNS-16-804-SRC5G	77.72	51.19	26.54	20.00	15.79	9.57	11.23	13.98	7.49	3.94	18.35	7.49	3.55	2.76	7.64	1/2" (side conn.)	974.45	1403.55
PNS-16-1590-SRC1G	63.67	36.07	27.60	11.76	20.95	9.57	11.23	13.98	7.49	3.94	18.35	7.49	3.55	2.76	7.64	3/4" (end conn.)	976.65	2775.98
PNS-16-1590-SRC2G	66.97	39.38	27.60	13.78	20.95	9.57	11.23	13.98	7.49	3.94	18.35	7.49	3.55	2.76	7.64	3/4" (end conn.)	1089.09	2775.98
PNS-16-1590-SRC3G (E)	78.78	51.19	27.60	16.50	20.95	9.57	11.23	13.98	7.49	3.94	18.35	7.49	3.55	2.76	7.64	3/4" (end conn.)	1541.04	2775.98
PNS-16-1590-SRC3G (H)	94.34	66.74	27.60	13.51	20.95	9.57	11.23	13.98	7.49	3.94	18.35	7.49	3.55	2.76	7.64	3/4" (end conn.)	1501.35	2775.98
PNS-16-1590-SRC4G (E)	66.15	38.55	27.60	16.50	20.95	9.57	11.23	13.98	7.49	3.94	18.35	7.49	3.55	2.76	7.64	3/4" (end conn.)	1234.59	2775.98
PNS-16-1590-SRC4G (H)	75.83	48.23	27.60	13.51	20.95	9.57	11.23	13.98	7.49	3.94	18.35	7.49	3.55	2.76	7.64	3/4" (end conn.)	1254.44	2775.98
PNS-16-1590-SRC5G	78.78	51.19	27.60	20.00	20.95	9.57	11.23	13.98	7.49	3.94	18.35	7.49	3.55	2.76	7.64	3/4" (end conn.)	1283.10	2775.98
PNS-16-2290-SRC1G	65.83	36.07	29.77	11.76	25.20	9.57	11.23	13.98	7.49	3.94	18.35	7.49	3.55	2.76	7.64	3/4" (end conn.)	1221.37	3997.06
PNS-16-2290-SRC2G	69.14	39.38	29.77	13.78	25.20	9.57	11.23	13.98	7.49	3.94	18.35	7.49	3.55	2.76	7.64	3/4" (end conn.)	1333.80	3997.06
PNS-16-2290-SRC3G (E)	80.95	51.19	29.77	16.50	25.20	9.57	11.23	13.98	7.49	3.94	18.35	7.49	3.55	2.76	7.64	3/4" (end conn.)	1785.75	3997.06
PNS-16-2290-SRC3G (H)	96.50	66.74	29.77	13.51	25.20	9.57	11.23	13.98	7.49	3.94	18.35	7.49	3.55	2.76	7.64	3/4" (end conn.)	1746.07	3997.06
PNS-16-2290-SRC4G (E)	68.31	38.55	29.77	16.50	25.20	9.57	11.23	13.98	7.49	3.94	18.35	7.49	3.55	2.76	7.64	3/4" (end conn.)	1477.10	3997.06
PNS-16-2290-SRC4G (H)	78.00	48.23	29.77	13.51	25.20	9.57	11.23	13.98	7.49	3.94	18.35	7.49	3.55	2.76	7.64	3/4" (end conn.)	1496.94	3997.06
PNS-16-2290-SRC5G	80.95	51.19	29.77	20.00	25.20	9.57	11.23	13.98	7.49	3.94	18.35	7.49	3.55	2.76	7.64	3/4" (end conn.)	1527.81	3997.06



FRAME 31 ASSEMBLIES

Actuator Model	A (in)	B (in)	C (in)	DS (in)	DC (in)	I (in)	J (in)	K (in)	L (in)	M (in)	N (in)	T (in)	U (in)	V (in)	W (in)	X NPT	Weight (lbs)	Swept Volume (cu.in.)
PNS-31-1590-DA	57.64	18.67	38.98	N/A	20.95	13.90	15.16	19.89	8.86	6.30	27.41	9.53	4.73	4.73	9.06	3/4" (end conn.)	1197.12	4078.22
PNS-31-2290-DA	58.04	18.67	39.38	N/A	25.20	13.90	15.16	19.89	8.86	6.30	27.41	9.53	4.73	4.73	9.06	3/4" (end conn.)	1428.60	5872.93
PNS-31-3216-DA	59.69	18.67	41.03	N/A	29.34	13.90	15.16	19.89	8.86	6.30	27.41	9.53	4.73	4.73	9.06	1" (end conn.)	1865.12	8249.19
PNS-31-4300-DA	60.08	18.67	41.42	N/A	33.63	13.90	15.16	19.89	11.03	6.30	27.41	9.53	4.73	4.73	9.06	1" (end conn.)	2537.53	11028.22
PNS-31-1590-SRC1H	98.04	59.06	38.98	16.50	20.95	13.90	15.16	19.89	8.86	6.30	27.41	9.53	4.73	4.73	9.06	3/4" (end conn.)	1988.57	4078.22
PNS-31-1590-SRC2H (E)	97.96	58.98	38.98	16.50	20.95	13.90	15.16	19.89	8.86	6.30	27.41	9.53	4.73	4.73	9.06	3/4" (end conn.)	2063.53	4078.22
PNS-31-1590-SRC2H (H)	118.12	79.14	38.98	13.51	20.95	13.90	15.16	19.89	8.86	6.30	27.41	9.53	4.73	4.73	9.06	3/4" (end conn.)	1988.57	4078.22
PNS-31-1590-SRC3H (E)	108.00	69.02	38.98	20.00	20.95	13.90	15.16	19.89	8.86	6.30	27.41	9.53	4.73	4.73	9.06	3/4" (end conn.)	2683.03	4078.22
PNS-31-1590-SRC3H (H)	113.78	74.81	38.98	13.51	20.95	13.90	15.16	19.89	8.86	6.30	27.41	9.53	4.73	4.73	9.06	3/4" (end conn.)	1968.73	4078.22
PNS-31-1590-SRC4H (E)	107.37	68.39	38.98	18.04	20.95	13.90	15.16	19.89	8.86	6.30	27.41	9.53	4.73	4.73	9.06	3/4" (end conn.)	2186.99	4078.22
PNS-31-1590-SRC4H (H)	124.22	85.24	38.98	15.00	20.95	13.90	15.16	19.89	8.86	6.30	27.41	9.53	4.73	4.73	9.06	3/4" (end conn.)	2266.36	4078.22
PNS-31-1590-SRC5H	121.66	82.68	38.98	20.00	20.95	13.90	15.16	19.89	8.86	6.30	27.41	9.53	4.73	4.73	9.06	3/4" (end conn.)	3157.02	4078.22
PNS-31-1590-SRC6H	128.59	89.61	38.98	20.00	20.95	13.90	15.16	19.89	8.86	6.30	27.41	9.53	4.73	4.73	9.06	3/4" (end conn.)	3375.28	4078.22
PNS-31-1590-SRC7H	133.47	94.49	38.98	20.00	20.95	13.90	15.16	19.89	8.86	6.30	27.41	9.53	4.73	4.73	9.06	3/4" (end conn.)	3573.70	4078.22
PNS-31-2290-SRC1H	98.43	59.06	39.38	16.50	25.20	13.90	15.16	19.89	8.86	6.30	27.41	9.53	4.73	4.73	9.06	3/4" (end conn.)	2220.06	5872.93
PNS-31-2290-SRC2H (E)	98.35	58.98	39.38	16.50	25.20	13.90	15.16	19.89	8.86	6.30	27.41	9.53	4.73	4.73	9.06	3/4" (end conn.)	2295.02	5872.93
PNS-31-2290-SRC2H (H)	118.51	79.14	39.38	13.51	25.20	13.90	15.16	19.89	8.86	6.30	27.41	9.53	4.73	4.73	9.06	3/4" (end conn.)	2220.06	5872.93
PNS-31-2290-SRC3H (E)	108.39	69.02	39.38	20.00	25.20	13.90	15.16	19.89	8.86	6.30	27.41	9.53	4.73	4.73	9.06	3/4" (end conn.)	2914.52	5872.93
PNS-31-2290-SRC3H (H)	114.18	74.81	39.38	13.51	25.20	13.90	15.16	19.89	8.86	6.30	27.41	9.53	4.73	4.73	9.06	3/4" (end conn.)	2200.22	5872.93
PNS-31-2290-SRC4H (E)	107.76	68.39	39.38	18.04	25.20	13.90	15.16	19.89	8.86	6.30	27.41	9.53	4.73	4.73	9.06	3/4" (end conn.)	2418.48	5872.93
PNS-31-2290-SRC4H (H)	124.61	85.24	39.38	15.00	25.20	13.90	15.16	19.89	8.86	6.30	27.41	9.53	4.73	4.73	9.06	3/4" (end conn.)	2497.84	5872.93
PNS-31-2290-SRC5H	122.05	82.68	39.38	20.00	25.20	13.90	15.16	19.89	8.86	6.30	27.41	9.53	4.73	4.73	9.06	3/4" (end conn.)	3388.51	5872.93
PNS-31-2290-SRC6H	128.98	89.61	39.38	20.00	25.20	13.90	15.16	19.89	8.86	6.30	27.41	9.53	4.73	4.73	9.06	3/4" (end conn.)	3606.77	5872.93
PNS-31-2290-SRC7H	133.86	94.49	39.38	20.00	25.20	13.90	15.16	19.89	8.86	6.30	27.41	9.53	4.73	4.73	9.06	3/4" (end conn.)	3805.18	5872.93
PNS-31-3216-SRC1H	100.08	59.06	41.03	16.50	29.34	13.90	15.16	19.89	8.86	6.30	27.41	9.53	4.73	4.73	9.06	1" (end conn.)	2656.58	8249.19
PNS-31-3216-SRC2H (E)	100.00	58.98	41.03	16.50	29.34	13.90	15.16	19.89	8.86	6.30	27.41	9.53	4.73	4.73	9.06	1" (end conn.)	2731.53	8249.19
PNS-31-3216-SRC2H (H)	120.16	79.14	41.03	13.51	29.34	13.90	15.16	19.89	8.86	6.30	27.41	9.53	4.73	4.73	9.06	1" (end conn.)	2656.58	8249.19
PNS-31-3216-SRC3H (E)	110.04	69.02	41.03	20.00	29.34	13.90	15.16	19.89	8.86	6.30	27.41	9.53	4.73	4.73	9.06	1" (end conn.)	3348.83	8249.19
PNS-31-3216-SRC3H (H)	115.83	74.81	41.03	13.51	29.34	13.90	15.16	19.89	8.86	6.30	27.41	9.53	4.73	4.73	9.06	1" (end conn.)	2636.73	8249.19
PNS-31-3216-SRC4H (E)	109.41	68.39	41.03	18.04	29.34	13.90	15.16	19.89	8.86	6.30	27.41	9.53	4.73	4.73	9.06	1" (end conn.)	2854.99	8249.19
PNS-31-3216-SRC4H (H)	126.26	85.24	41.03	15.00	29.34	13.90	15.16	19.89	8.86	6.30	27.41	9.53	4.73	4.73	9.06	1" (end conn.)	2934.36	8249.19
PNS-31-3216-SRC5H	123.71	82.68	41.03	20.00	29.34	13.90	15.16	19.89	8.86	6.30	27.41	9.53	4.73	4.73	9.06	1" (end conn.)	3825.03	8249.19
PNS-31-3216-SRC6H	130.63	89.61	41.03	20.00	29.34	13.90	15.16	19.89	8.86	6.30	27.41	9.53	4.73	4.73	9.06	1" (end conn.)	4043.28	8249.19
PNS-31-3216-SRC7H	135.52	94.49	41.03	20.00	29.34	13.90	15.16	19.89	8.86	6.30	27.41	9.53	4.73	4.73	9.06	1" (end conn.)	4241.70	8249.19
PNS-31-4300-SRC1H	100.48	59.06	41.42	16.50	33.63	13.90	15.16	19.89	8.86	6.30	27.41	9.53	4.73	4.73	9.06	1" (end conn.)	3328.99	11028.22
PNS-31-4300-SRC2H (E)	100.40	58.98	41.42	16.50	33.63	13.90	15.16	19.89	8.86	6.30	27.41	9.53	4.73	4.73	9.06	1" (end conn.)	3406.15	11028.22
PNS-31-4300-SRC2H (H)	120.56	79.14	41.42	13.51	33.63	13.90	15.16	19.89	8.86	6.30	27.41	9.53	4.73	4.73	9.06	1" (end conn.)	3328.99	11028.22
PNS-31-4300-SRC3H (E)	110.44	69.02	41.42	20.00	33.63	13.90	15.16	19.89	8.86	6.30	27.41	9.53	4.73	4.73	9.06	1" (end conn.)	4023.44	11028.22
PNS-31-4300-SRC3H (H)	116.23	74.81	41.42	13.51	33.63	13.90	15.16	19.89	8.86	6.30	27.41	9.53	4.73	4.73	9.06	1" (end conn.)	3309.14	11028.22
PNS-31-4300-SRC4H (E)	109.81	68.39	41.42	18.04	33.63	13.90	15.16	19.89	8.86	6.30	27.41	9.53	4.73	4.73	9.06	1" (end conn.)	3527.40	11028.22
PNS-31-4300-SRC4H (H)	126.66	85.24	41.42	15.00	33.63	13.90	15.16	19.89	8.86	6.30	27.41	9.53	4.73	4.73	9.06	1" (end conn.)	3606.77	11028.22
PNS-31-4300-SRC5H	124.10	82.68	41.42	20.00	33.63	13.90	15.16	19.89	8.86	6.30	27.41	9.53	4.73	4.73	9.06	1" (end conn.)	4499.64	11028.22
PNS-31-4300-SRC6H	131.03	89.61	41.42	20.00	33.63	13.90	15.16	19.89	8.86	6.30	27.41	9.53	4.73	4.73	9.06	1" (end conn.)	4715.69	11028.22
PNS-31-4300-SRC7H	135.91	94.49	41.42	20.00	33.63	13.90	15.16	19.89	8.86	6.30	27.41	9.53	4.73	4.73	9.06	1" (end conn.)	4914.11	11028.22



FRAME 118 ASSEMBLIES

Actuator Model	A (in)	B (in)	C (in)	DS (in)	DC (in)	I (in)	J (in)	K (in)	L (in)	M (in)	N (in)	T (in)	U (in)	V (in)	W (in)	X NPT	Weight (lbs)	Swept Volume (cu.in.)
PNS-118-1590-DA	70.52	24.73	45.79	N/A	20.95	16.86	18.31	23.04	11.03	7.88	33.31	12.76	6.34	4.73	11.23	3/4" (end conn.)	1858.50	5124.17
PNS-118-2290-DA	70.71	24.73	45.99	N/A	25.20	16.86	18.31	23.04	11.03	7.88	33.31	12.76	6.34	4.73	11.23	3/4" (end conn.)	2112.03	7379.00
PNS-118-3216-DA	72.01	24.73	47.29	N/A	29.34	16.86	18.31	23.04	11.03	7.88	33.31	12.76	6.34	4.73	11.23	1" (end conn.)	2552.96	10365.50
PNS-118-4300-DA	72.41	24.73	47.68	N/A	33.63	16.86	18.31	23.04	11.03	7.88	33.31	12.76	6.34	4.73	11.23	1" (end conn.)	3249.62	13857.28
PNS-118-5541-DA	76.42	24.73	51.70	N/A	38.27	16.86	18.31	23.04	11.03	7.88	33.31	12.76	6.34	4.73	11.23	1" (end conn.)	3970.53	17856.16
PNS-118-1590-SRC1K (E)	120.32	74.53	45.79	20.00	20.95	16.86	18.31	23.04	11.03	7.88	33.31	12.76	6.34	4.73	11.23	3/4" (end conn.)	3384.10	5124.17
PNS-118-1590-SRC1K (H)	126.50	80.71	45.79	13.51	20.95	16.86	18.31	23.04	11.03	7.88	33.31	12.76	6.34	4.73	11.23	3/4" (end conn.)	2649.96	5124.17
PNS-118-1590-SRC2K (E)	119.61	73.82	45.79	18.04	20.95	16.86	18.31	23.04	11.03	7.88	33.31	12.76	6.34	4.73	11.23	3/4" (end conn.)	2868.22	5124.17
PNS-118-1590-SRC2K (H)	137.72	91.93	45.79	15.00	20.95	16.86	18.31	23.04	11.03	7.88	33.31	12.76	6.34	4.73	11.23	3/4" (end conn.)	2947.59	5124.17
PNS-118-1590-SRC3D	141.46	95.67	45.79	20.00	20.95	16.86	18.31	23.04	11.03	7.88	33.31	12.76	6.34	4.73	11.23	3/4" (end conn.)	3818.41	5124.17
PNS-118-1590-SRC3K (E)	142.84	97.05	45.79	20.00	20.95	16.86	18.31	23.04	11.03	7.88	33.31	12.76	6.34	4.73	11.23	3/4" (end conn.)	3829.43	5124.17
PNS-118-1590-SRC3K (H)	137.92	92.13	45.79	20.00	20.95	16.86	18.31	23.04	11.03	7.88	33.31	12.76	6.34	4.73	11.23	3/4" (end conn.)	4036.67	5124.17
PNS-118-1590-SRC4K	137.64	91.86	45.79	22.01	20.95	16.86	18.31	23.04	11.03	7.88	33.31	12.76	6.34	4.73	11.23	3/4" (end conn.)	3937.46	5124.17
PNS-118-1590-SRC5K	138.35	92.56	45.79	24.02	20.95	16.86	18.31	23.04	11.03	7.88	33.31	12.76	6.34	4.73	11.23	3/4" (end conn.)	4435.71	5124.17
PNS-118-1590-SRC6K	150.32	104.53	45.79	24.02	20.95	16.86	18.31	23.04	11.03	7.88	33.31	12.76	6.34	4.73	11.23	3/4" (end conn.)	4830.33	5124.17
PNS-118-2290-SRC1K (E)	120.52	74.53	45.99	20.00	25.20	16.86	18.31	23.04	11.03	7.88	33.31	12.76	6.34	4.73	11.23	3/4" (end conn.)	3637.63	7379.00
PNS-118-2290-SRC1K (H)	126.70	80.71	45.99	13.51	25.20	16.86	18.31	23.04	11.03	7.88	33.31	12.76	6.34	4.73	11.23	3/4" (end conn.)	2903.49	7379.00
PNS-118-2290-SRC2K (E)	119.81	73.82	45.99	18.04	25.20	16.86	18.31	23.04	11.03	7.88	33.31	12.76	6.34	4.73	11.23	3/4" (end conn.)	3121.75	7379.00
PNS-118-2290-SRC2K (H)	137.92	91.93	45.99	15.00	25.20	16.86	18.31	23.04	11.03	7.88	33.31	12.76	6.34	4.73	11.23	3/4" (end conn.)	3201.12	7379.00
PNS-118-2290-SRC3D	141.66	95.67	45.99	20.00	25.20	16.86	18.31	23.04	11.03	7.88	33.31	12.76	6.34	4.73	11.23	3/4" (end conn.)	4071.94	7379.00
PNS-118-2290-SRC3K (E)	143.04	97.05	45.99	20.00	25.20	16.86	18.31	23.04	11.03	7.88	33.31	12.76	6.34	4.73	11.23	3/4" (end conn.)	4082.97	7379.00
PNS-118-2290-SRC3K (H)	138.12	92.13	45.99	20.00	25.20	16.86	18.31	23.04	11.03	7.88	33.31	12.76	6.34	4.73	11.23	3/4" (end conn.)	4290.20	7379.00
PNS-118-2290-SRC4K	137.84	91.86	45.99	22.01	25.20	16.86	18.31	23.04	11.03	7.88	33.31	12.76	6.34	4.73	11.23	3/4" (end conn.)	4190.99	7379.00
PNS-118-2290-SRC5K	138.55	92.56	45.99	24.02	25.20	16.86	18.31	23.04	11.03	7.88	33.31	12.76	6.34	4.73	11.23	3/4" (end conn.)	4689.24	7379.00
PNS-118-2290-SRC6K	150.52	104.53	45.99	24.02	25.20	16.86	18.31	23.04	11.03	7.88	33.31	12.76	6.34	4.73	11.23	3/4" (end conn.)	5083.86	7379.00
PNS-118-3216-SRC1K (E)	121.82	74.53	47.29	20.00	29.34	16.86	18.31	23.04	11.03	7.88	33.31	12.76	6.34	4.73	11.23	1" (end conn.)	4078.56	10365.50
PNS-118-3216-SRC1K (H)	128.00	80.71	47.29	13.51	29.34	16.86	18.31	23.04	11.03	7.88	33.31	12.76	6.34	4.73	11.23	1" (end conn.)	3346.62	10365.50
PNS-118-3216-SRC2K (E)	121.11	73.82	47.29	18.04	29.34	16.86	18.31	23.04	11.03	7.88	33.31	12.76	6.34	4.73	11.23	1" (end conn.)	3562.68	10365.50
PNS-118-3216-SRC2K (H)	139.22	91.93	47.29	15.00	29.34	16.86	18.31	23.04	11.03	7.88	33.31	12.76	6.34	4.73	11.23	1" (end conn.)	3642.04	10365.50
PNS-118-3216-SRC3D	142.96	95.67	47.29	20.00	29.34	16.86	18.31	23.04	11.03	7.88	33.31	12.76	6.34	4.73	11.23	1" (end conn.)	4515.07	10365.50
PNS-118-3216-SRC3K (E)	144.34	97.05	47.29	20.00	29.34	16.86	18.31	23.04	11.03	7.88	33.31	12.76	6.34	4.73	11.23	1" (end conn.)	4523.89	10365.50
PNS-118-3216-SRC3K (H)	139.41	92.13	47.29	20.00	29.34	16.86	18.31	23.04	11.03	7.88	33.31	12.76	6.34	4.73	11.23	1" (end conn.)	4733.33	10365.50
PNS-118-3216-SRC4K	139.14	91.86	47.29	22.01	29.34	16.86	18.31	23.04	11.03	7.88	33.31	12.76	6.34	4.73	11.23	1" (end conn.)	4634.12	10365.50
PNS-118-3216-SRC5K	139.85	92.56	47.29	24.02	29.34	16.86	18.31	23.04	11.03	7.88	33.31	12.76	6.34	4.73	11.23	1" (end conn.)	5130.16	10365.50
PNS-118-3216-SRC6K	151.82	104.53	47.29	24.02	29.34	16.86	18.31	23.04	11.03	7.88	33.31	12.76	6.34	4.73	11.23	1" (end conn.)	5524.79	10365.50
PNS-118-4300-SRC1K (E)	122.21	74.53	47.68	20.00	33.63	16.86	18.31	23.04	11.03	7.88	33.31	12.76	6.34	4.73	11.23	1" (end conn.)	4775.22	13857.28
PNS-118-4300-SRC1K (H)	128.39	80.71	47.68	13.51	33.63	16.86	18.31	23.04	11.03	7.88	33.31	12.76	6.34	4.73	11.23	1" (end conn.)	4041.08	13857.28
PNS-118-4300-SRC2K (E)	121.50	73.82	47.68	18.04	33.63	16.86	18.31	23.04	11.03	7.88	33.31	12.76	6.34	4.73	11.23	1" (end conn.)	4259.34	13857.28
PNS-118-4300-SRC2K (H)	139.61	91.93	47.68	15.00	33.63	16.86	18.31	23.04	11.03	7.88	33.31	12.76	6.34	4.73	11.23	1" (end conn.)	4338.70	13857.28
PNS-118-4300-SRC3D	143.35	95.67	47.68	20.00	33.63	16.86	18.31	23.04	11.03	7.88	33.31	12.76	6.34	4.73	11.23	1" (end conn.)	5209.53	13857.28
PNS-118-4300-SRC3K (E)	144.73	97.05	47.68	20.00	33.63	16.86	18.31	23.04	11.03	7.88	33.31	12.76	6.34	4.73	11.23	1" (end conn.)	5220.55	13857.28
PNS-118-4300-SRC3K (H)	139.81	92.13	47.68	20.00	33.63	16.86	18.31	23.04	11.03	7.88	33.31	12.76	6.34	4.73	11.23	1" (end conn.)	5427.79	13857.28
PNS-118-4300-SRC4K	139.53	91.86	47.68	22.01	33.63	16.86	18.31	23.04	11.03	7.88	33.31	12.76	6.34	4.73	11.23	1" (end conn.)	5328.58	13857.28
PNS-118-4300-SRC5K	140.24	92.56	47.68	24.02	33.63	16.86	18.31	23.04	11.03	7.88	33.31	12.76	6.34	4.73	11.23	1" (end conn.)	5826.82	13857.28
PNS-118-4300-SRC6K	152.21	104.53	47.68	24.02	33.63	16.86	18.31	23.04	11.03	7.88	33.31	12.76	6.34	4.73	11.23	1" (end conn.)	6219.25	13857.28
PNS-118-5541-SRC1K (E)	126.23	74.53	51.70	20.00	38.27	16.86	18.31	23.04	11.03	7.88	33.31	12.76	6.34	4.73	11.23	1" (end conn.)	5496.13	17856.16
PNS-118-5541-SRC1K (H)	132.41	80.71	51.70	13.51	38.27	16.86	18.31	23.04	11.03	7.88	33.31	12.76	6.34	4.73	11.23	1" (end conn.)	4761.99	17856.16
PNS-118-5541-SRC2K (E)	125.52	73.82	51.70	18.04	38.27	16.86	18.31	23.04	11.03	7.88	33.31	12.76	6.34	4.73	11.23	1" (end conn.)	4980.25	17856.16
PNS-118-5541-SRC2K (H)	143.63	91.93	51.70	15.00	38.27	16.86	18.31	23.04	11.03	7.88	33.31	12.76	6.34	4.73	11.23	1" (end conn.)	5059.61	17856.16
PNS-118-5541-SRC3D	147.37	95.67	51.70	20.00	38.27	16.86	18.31	23.04	11.03	7.88	33.31	12.76	6.34	4.73	11.23	1" (end conn.)	5930.44	17856.16
PNS-118-5541-SRC3K (E)	148.75	97.05	51.70	20.00	38.27	16.86	18.31	23.04	11.03	7.88	33.31	12.76	6.34	4.73	11.23	1" (end conn.)	5941.46	17856.16
PNS-118-5541-SRC3K (H)	143.82	92.13	51.70	20.00	38.27	16.86	18.31	23.04	11.03	7.88	33.31	12.76	6.34	4.73	11.23	1" (end conn.)	6148.70	17856.16
PNS-118-5541-SRC4K	143.55	91.86	51.70	22.01	38.27	16.86	18.31	23.04	11.03	7.88	33.31	12.76	6.34	4.73	11.23	1" (end conn.)	6049.49	17856.16
PNS-118-5541-SRC5K	144.26	92.56	51.70	24.02	38.27	16.86	18.31	23.04	11.03	7.88	33.31	12.76	6.34	4.73	11.23	1" (end conn.)	6547.73	17856.16
PNS-118-5541-SRC6K	156.23	104.53	51.70	24.02	38.27	16.86	18.31	23.04	11.03	7.88	33.31	12.76	6.34	4.73	11.23	1" (end conn.)	6942.36	17856.16

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