FORÇAS DOS CILIDROS PNEÚMÁTICOS

METAL WORK PNEUMATIC

FORÇAS DESENVOLVIDAS DURANTE AVANÇO E RETORNO (TEÓRICO)

Diâmetro do cilindro mm	Diâmetro da haste mm	Movimento	Área útil cm²	Força de avanço e retorno em daN=Kgf, dependendo da pressão operacional em bar.									
				1 bar	2 bar	3 bar	4 bar	5 bar	6 bar	7 bar	8 bar	9 bar	10 bar
8	4	Avanço	0.50	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0
		Retorno	0.38	0.4	0.8	1.1	1.5	1.9	2.3	2.6	3.0	3.4	3.8
10	4	Avanço	0.79	0.8	1.6	2.4	3.1	3.9	4.7	5.5	6.3	7.1	7.9
		Retorno	0.66	0.7	1.3	2.0	2.6	3.3	4.0	4.6	5.3	5.9	6.6
12	6	Avanço	1.13	1.1	2.3	3.4	4.5	5.7	6.8	7.9	9.0	10.2	11.3
		Retorno	0.85	0.8	1.7	2.5	3.4	4.2	5.1	5.9	6.8	7.6	8.5
16	6	Avanço	2.01	2.0	4.0	6.0	8.0	10.1	12.1	14.1	16.1	18.1	20.1
		Retorno	1.73	1.7	3.5	5.2	6.9	8.6	10.4	12.1	13.8	15.6	17.3
16	8	Avanço	2.01	2.0	4.0	6.0	8.0	10.1	12.1	14.1	16.1	18.1	20.1
		Retorno	1.51	1.5	3.0	4.5	6.0	7.5	9.0	10.6	12.1	13.6	15.1
20	8	Avanço	3.14	3.1	6.3	9.4	12.6	15.7	18.8	22.0	25.1	28.3	31.4
		Retorno	2.64	2.6	5.3	7.9	10.6	13.2	15.8	18.5	21.1	23.8	26.4
20	10	Avanço	3.14	3.1	6.3	9.4	12.6	15.7	18.8	22.0	25.1	28.3	31.4
		Retorno	2.36	2.4	4.7	7.1	9.4	11.8	14.1	16.5	18.8	21.2	23.6
25	8	Avanço	4.91	4.9	9.8	14.7	19.6	24.5	29.5	34.4	39.3	44.2	49.1
		Retorno	4.41	4.4	8.8	13.2	17.6	22.0	26.4	30.8	35.2	39.7	44.1
25	10	Avanço	4.91	4.9	9.8	14.7	19.6	24.5	29.5	34.4	39.3	44.2	49.1
		Retorno	4.12	4.1	8.2	12.4	16.5	20.6	24.7	28.9	33.0	37.1	41.2
32	12	Avanço	8.04	8.0	16.1	24.1	32.2	40.2	48.3	56.3	64.3	72.4	80.4
		Retorno	6.91	6.9	13.8	20.7	27.6	34.6	41.5	48.4	55.3	62.2	69.1
40	12	Avanço	12.57	12.6	25.1	37.7	50.3	62.8	75.4	88.0	100.5	113.1	125.7
		Retorno	11.44	11.4	22.9	34.3	45.7	57.2	68.6	80.0	91.5	102.9	114.4
40	16	Avanço	12.57	12.6	25.1	37.7	50.3	62.8	75.4	88.0	100.5	113.1	125.7
		Retorno	10.56	10.6	21.1	31.7	42.2	52.8	63.3	73.9	84.4	95.0	105.6
50	16	Avanço	19.63	19.6	39.3	58.9	78.5	98.2	117.8	137.4	157.1	176.7	196.3
		Retorno	17.62	17.6	35.2	52.9	70.5	88.1	105.7	123.4	141.0	158.6	176.2
50	20	Avanço	19.63	19.6	39.3	58.9	78.5	98.2	117.8	137.4	157.1	176.7	196.3
		Retorno	16.49	16.5	33.0	49.5	66.0	82.5	99.0	115.5	131.9	148.4	164.9
63	16	Avanço	31.17	31.2	62.3	93.5	124.7	155.9	187.0	218.2	249.4	280.6	311.7
		Retorno	29.16	29.2	58.3	87.5	116.6	145.8	175.0	204.1	233.3	262.5	291.6
63	20	Avanço	31.17	31.2	62.3	93.5	124.7	155.9	187.0	218.2	249.4	280.6	311.7
		Retorno	28.03	28.0	56.1	84.1	112.1	140.2	168.2	196.2	224.2	252.3	280.3
80	20	Avanço	50.27	50.3	100.5	150.8	201.1	251.3	301.6	351.9	402.1	452.4	502.7
		Retorno	47.12	47.1	94.2	141.4	188.5	235.6	282.7	329.9	377.0	424.1	471.2
80	25	Avanço	50.27	50.3	100.5	150.8	201.1	251.3	301.6	351.9	402.1	452.4	502.7
		Retorno	45.36	45.4	90.7	136.1	181.4	226.8	272.1	317.5	362.9	408.2	453.6
100	25	Avanço	78.54	78.5	157.1	235.6	314.2	392.7	471.2	549.8	628.3	706.9	785.4
		Retorno	73.63	73.6	147.3	220.9	294.5	368.2	441.8	515.4	589.0	662.7	736.3
125	32	Avanço	122.72	122.7	245.4	368.2	490.9	613.6	736.3	859.0	981.7	1104.5	1227.2
		Retorno	114.68	114.7	229.4	344.0	458.7	573.4	688.1	802.7	917.4	1032.1	1146.8
160	40	Avanço	201.06	201.1	402.1	603.2	804.2	1005.3	1206.4	1407.4	1608.5	1809.6	2010.6
		Retorno	188.50	188.5	377,0	565.5	754.0	942.5	1131.0	1319.5	1508.0	1696.5	1885.0
200	40	Avanço	314.16	314.2	628.3	942.5	1256.6	1570.8	1885.0	2199.1	2513.3	2827.4	3141.6
		Retorno	301.59	301.6	603.2	904.8	1206.4	1508.0	1809.6	2111.1	2412.7	2714.3	3015.9

ANOTAÇÕES