

Generalmatic S.R.L.

COMPONENTI PNEUMATICI ed OLEODINAMICI - AUTOMAZIONE INDUSTRIALE

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TABELLA DELLE PORTATE FLOW CHART

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<1> DESCRIZIONE GENERALE:**Tipo di dati reperibili dalla tabella:**

Nella tabella sono indicati i valori di portata d'aria secca che passano in una valvola pneumatica in funzione del salto di pressione tra ingresso ed uscita.

Il valore di portata ottenuto è misurato in NL/min (Normal Litri al minuto), mentre le pressioni in ingresso P_IN e in uscita dalla valvola P_CYL sono espresse in bar. Tali pressioni sono da considerarsi "pressioni relative". La pressione atmosferica, cioè, si rappresenta con il valore di 0,0 bar (cioè 1,0 bar in valore assoluto).

Per consultare la tabella selezionare il valore di pressioni corrispondenti alle bocche della valvola (ingresso ed uscita) ed intersecare la riga ottenuta con la colonna relativa alla portata nominale della valvola (misurata con una pressione in ingresso di 6,0 bar e una pressione in uscita di 5,0 bar, in accordo con le normative internazionali di misurazione).

Moltiplicare il valore così ottenuto per il coefficiente (1, 10, 100...) relativo alla portata nominale selezionata. Tale valore rappresenta il valore di PORTATA in NL/min relativo a quelle condizioni di funzionamento.

Operando in modo inverso è possibile avere un dimensionamento di massima della valvola da utilizzare per ottenere un determinato flusso d'aria in funzione del salto di pressione sulla valvola stessa.

Ritorna a: <0> Indice dei contenuti

<2> TABELLA DELLE PORTATE - FLOW CHART:

MULTIPLICARE IL VALORE DELLA TABELLA PER		PORTATA Nominale [NL/min] - Nominal FLOW P_IN = 6,0 bar - P_CYL = 5,0 bar - Δp 1 bar											
		1,00	1,25	1,60	2,00	2,50	3,15	4,00	5,00	6,30	8,00	10,00	
1		1,00	1,25	1,60	2,00	2,50	3,15	4,00	5,00	6,30	8,00	10,00	
10		10,0	12,5	16,0	20,0	25,0	31,5	40,0	50,0	63,0	80,0	100,0	
100		100	125	160	200	250	315	400	500	630	800	1000	
1000		1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	
10000		10000	12500	16000	20000	25000	31500	40000	50000	63000	80000	100000	
PRESSIONI VALVOLA		PORTATA EFFETTIVA [NL/min]											
P_IN INGRESSO [bar]	P_CYL USCITA [bar]												
0,5	0,5	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000
	0,0	0,327	0,409	0,524	0,655	0,819	1,032	1,310	1,637	2,063	2,620	3,275	
1,0	1,0	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000
	0,5	0,378	0,473	0,605	0,756	0,945	1,191	1,513	1,891	2,382	3,025	3,781	
1,5	0,0	0,525	0,656	0,840	1,050	1,313	1,654	2,101	2,626	3,309	4,201	5,252	
	1,5	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000
	1,0	0,423	0,528	0,676	0,846	1,057	1,332	1,691	2,114	2,663	3,382	4,228	
2,0	0,5	0,598	0,747	0,957	1,196	1,495	1,883	2,391	2,989	3,767	4,783	5,979	
	0,0	0,656	0,821	1,050	1,313	1,641	2,068	2,626	3,282	4,136	5,252	6,565	
	2,0	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000
	1,5	0,463	0,579	0,741	0,926	1,158	1,459	1,852	2,316	2,918	3,705	4,631	
2,0	1,0	0,655	0,819	1,048	1,310	1,637	2,063	2,620	3,275	4,126	5,240	6,549	
	0,5	0,788	0,985	1,260	1,575	1,969	2,481	3,151	3,939	4,963	6,302	7,877	
	0,0	0,788	0,985	1,260	1,575	1,969	2,481	3,151	3,939	4,963	6,302	7,877	

2,5	2,5	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000
	2,0	0,500	0,625	0,800	1,000	1,251	1,576	2,001	2,501	3,151	4,002	5,002
	1,5	0,707	0,884	1,132	1,415	1,769	2,228	2,830	3,537	4,457	5,659	7,074
	1,0	0,866	1,083	1,386	1,733	2,166	2,729	3,466	4,332	5,458	6,931	8,664
	0,5	0,919	1,149	1,470	1,838	2,298	2,895	3,676	4,595	5,790	7,352	9,190
	0,0	0,919	1,149	1,470	1,838	2,298	2,895	3,676	4,595	5,790	7,352	9,190
3,0	3,0	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000
	2,5	0,535	0,668	0,856	1,070	1,337	1,684	2,139	2,674	3,369	4,278	5,348
	2,0	0,756	0,945	1,210	1,513	1,891	2,382	3,025	3,781	4,764	6,050	7,563
	1,5	0,926	1,158	1,482	1,852	2,316	2,918	3,705	4,631	5,835	7,410	9,262
	1,0	1,050	1,313	1,681	2,101	2,626	3,309	4,201	5,252	6,617	8,403	10,503
	0,5	1,050	1,313	1,681	2,101	2,626	3,309	4,201	5,252	6,617	8,403	10,503
3,5	3,5	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000
	3,0	0,567	0,709	0,908	1,134	1,418	1,787	2,269	2,836	3,573	4,538	5,672
	2,5	0,802	1,003	1,283	1,604	2,005	2,527	3,209	4,011	5,053	6,417	8,021
	2,0	0,982	1,228	1,572	1,965	2,456	3,095	3,930	4,912	6,189	7,859	9,824
	1,5	1,134	1,418	1,815	2,269	2,836	3,573	4,538	5,672	7,147	9,075	11,344
	1,0	1,182	1,477	1,891	2,363	2,954	3,722	4,726	5,908	7,444	9,453	11,816
	0,5	1,182	1,477	1,891	2,363	2,954	3,722	4,726	5,908	7,444	9,453	11,816
	0,0	1,182	1,477	1,891	2,363	2,954	3,722	4,726	5,908	7,444	9,453	11,816
4,0	4,0	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000
	3,5	0,598	0,747	0,957	1,196	1,495	1,883	2,391	2,989	3,767	4,783	5,979
	3,0	0,846	1,057	1,353	1,691	2,114	2,663	3,382	4,228	5,327	6,764	8,455
	2,5	1,036	1,294	1,657	2,071	2,589	3,262	4,142	5,178	6,524	8,284	10,355
	2,0	1,196	1,495	1,913	2,391	2,989	3,767	4,783	5,979	7,533	9,566	11,957
	1,5	1,313	1,641	2,101	2,626	3,282	4,136	5,252	6,565	8,271	10,503	13,129
	1,0	1,313	1,641	2,101	2,626	3,282	4,136	5,252	6,565	8,271	10,503	13,129
	0,5	1,313	1,641	2,101	2,626	3,282	4,136	5,252	6,565	8,271	10,503	13,129
4,5	4,5	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000
	4,0	0,627	0,784	1,003	1,254	1,568	1,975	2,508	3,135	3,950	5,016	6,271
	3,5	0,887	1,108	1,419	1,774	2,217	2,793	3,547	4,434	5,587	7,094	8,868
	3,0	1,086	1,358	1,738	2,172	2,715	3,421	4,344	5,430	6,842	8,689	10,861
	2,5	1,254	1,568	2,007	2,508	3,135	3,950	5,016	6,271	7,901	10,033	12,541
	2,0	1,402	1,753	2,243	2,804	3,505	4,417	5,609	7,011	8,833	11,217	14,021
	1,5	1,444	1,805	2,311	2,888	3,611	4,549	5,777	7,221	9,098	11,554	14,442
	1,0	1,444	1,805	2,311	2,888	3,611	4,549	5,777	7,221	9,098	11,554	14,442
	0,5	1,444	1,805	2,311	2,888	3,611	4,549	5,777	7,221	9,098	11,554	14,442
5,0	5,0	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000
	4,5	0,655	0,819	1,048	1,310	1,637	2,063	2,620	3,275	4,126	5,240	6,549
	4,0	0,926	1,158	1,482	1,852	2,316	2,918	3,705	4,631	5,835	7,410	9,262
	3,5	1,134	1,418	1,815	2,269	2,836	3,573	4,538	5,672	7,147	9,075	11,344
	3,0	1,310	1,637	2,096	2,620	3,275	4,126	5,240	6,549	8,252	10,479	13,099
	2,5	1,464	1,831	2,343	2,929	3,661	4,613	5,858	7,322	9,226	11,716	14,645
	2,0	1,575	1,969	2,521	3,151	3,939	4,963	6,302	7,877	9,926	12,604	15,755
	1,5	1,575	1,969	2,521	3,151	3,939	4,963	6,302	7,877	9,926	12,604	15,755
	1,0	1,575	1,969	2,521	3,151	3,939	4,963	6,302	7,877	9,926	12,604	15,755
	0,5	1,575	1,969	2,521	3,151	3,939	4,963	6,302	7,877	9,926	12,604	15,755
0,0	1,575	1,969	2,521	3,151	3,939	4,963	6,302	7,877	9,926	12,604	15,755	

5,5	5,5	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000
	5,0	0,682	0,852	1,091	1,363	1,704	2,147	2,727	3,408	4,295	5,453	6,817
	4,5	0,964	1,205	1,542	1,928	2,410	3,037	3,856	4,820	6,073	7,712	9,640
	4,0	1,181	1,476	1,889	2,361	2,952	3,719	4,723	5,904	7,438	9,446	11,807
	3,5	1,363	1,704	2,181	2,727	3,408	4,295	5,453	6,817	8,589	10,907	13,634
	3,0	1,524	1,905	2,439	3,049	3,811	4,802	6,097	7,621	9,603	12,194	15,243
	2,5	1,670	2,087	2,672	3,340	4,174	5,260	6,679	8,349	10,520	13,358	16,698
	2,0	1,707	2,133	2,731	3,414	4,267	5,376	6,827	8,534	10,753	13,654	17,068
	1,5	1,707	2,133	2,731	3,414	4,267	5,376	6,827	8,534	10,753	13,654	17,068
	1,0	1,707	2,133	2,731	3,414	4,267	5,376	6,827	8,534	10,753	13,654	17,068
	0,5	1,707	2,133	2,731	3,414	4,267	5,376	6,827	8,534	10,753	13,654	17,068
0,0	1,707	2,133	2,731	3,414	4,267	5,376	6,827	8,534	10,753	13,654	17,068	
6,0	6,0	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000
	5,5	0,707	0,884	1,132	1,415	1,769	2,228	2,830	3,537	4,457	5,659	7,074
	5,0	1,000	1,250	1,600	2,000	2,500	3,150	4,000	5,000	6,300	8,000	10,000
	4,5	1,225	1,532	1,960	2,451	3,063	3,860	4,901	6,126	7,719	9,802	12,253
	4,0	1,415	1,769	2,264	2,830	3,537	4,457	5,659	7,074	8,913	11,319	14,148
	3,5	1,582	1,977	2,531	3,164	3,955	4,983	6,327	7,909	9,966	12,655	15,818
	3,0	1,733	2,166	2,772	3,466	4,332	5,458	6,931	8,664	10,917	13,862	17,328
	2,5	1,838	2,298	2,941	3,676	4,595	5,790	7,352	9,190	11,580	14,705	18,381
	2,0	1,838	2,298	2,941	3,676	4,595	5,790	7,352	9,190	11,580	14,705	18,381
	1,5	1,838	2,298	2,941	3,676	4,595	5,790	7,352	9,190	11,580	14,705	18,381
	1,0	1,838	2,298	2,941	3,676	4,595	5,790	7,352	9,190	11,580	14,705	18,381
0,5	1,838	2,298	2,941	3,676	4,595	5,790	7,352	9,190	11,580	14,705	18,381	
0,0	1,838	2,298	2,941	3,676	4,595	5,790	7,352	9,190	11,580	14,705	18,381	
6,5	6,5	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000
	6,0	0,732	0,915	1,172	1,464	1,831	2,307	2,929	3,661	4,613	5,858	7,322
	5,5	1,036	1,294	1,657	2,071	2,589	3,262	4,142	5,178	6,524	8,284	10,355
	5,0	1,268	1,585	2,029	2,537	3,171	3,995	5,073	6,341	7,990	10,146	12,683
	4,5	1,464	1,831	2,343	2,929	3,661	4,613	5,858	7,322	9,226	11,716	14,645
	4,0	1,637	2,047	2,620	3,275	4,093	5,158	6,549	8,187	10,315	13,099	16,373
	3,5	1,794	2,242	2,870	3,587	4,484	5,650	7,174	8,968	11,300	14,349	17,936
	3,0	1,937	2,422	3,100	3,875	4,843	6,103	7,749	9,687	12,205	15,499	19,373
	2,5	1,969	2,462	3,151	3,939	4,923	6,204	7,877	9,847	12,407	15,755	19,694
	2,0	1,969	2,462	3,151	3,939	4,923	6,204	7,877	9,847	12,407	15,755	19,694
	1,5	1,969	2,462	3,151	3,939	4,923	6,204	7,877	9,847	12,407	15,755	19,694
1,0	1,969	2,462	3,151	3,939	4,923	6,204	7,877	9,847	12,407	15,755	19,694	
0,5	1,969	2,462	3,151	3,939	4,923	6,204	7,877	9,847	12,407	15,755	19,694	
0,0	1,969	2,462	3,151	3,939	4,923	6,204	7,877	9,847	12,407	15,755	19,694	
7,0	7,0	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000
	6,5	0,756	0,945	1,210	1,513	1,891	2,382	3,025	3,781	4,764	6,050	7,563
	6,0	1,070	1,337	1,711	2,139	2,674	3,369	4,278	5,348	6,738	8,556	10,695
	5,5	1,310	1,637	2,096	2,620	3,275	4,126	5,240	6,549	8,252	10,479	13,099
	5,0	1,513	1,891	2,420	3,025	3,781	4,764	6,050	7,563	9,529	12,100	15,125
	4,5	1,691	2,114	2,706	3,382	4,228	5,327	6,764	8,455	10,654	13,528	16,910
	4,0	1,852	2,316	2,964	3,705	4,631	5,835	7,410	9,262	11,670	14,820	18,524
	3,5	2,001	2,501	3,201	4,002	5,002	6,303	8,003	10,004	12,605	16,007	20,009
	3,0	2,101	2,626	3,361	4,201	5,252	6,617	8,403	10,503	13,234	16,805	21,007
	2,5	2,101	2,626	3,361	4,201	5,252	6,617	8,403	10,503	13,234	16,805	21,007
	2,0	2,101	2,626	3,361	4,201	5,252	6,617	8,403	10,503	13,234	16,805	21,007
	1,5	2,101	2,626	3,361	4,201	5,252	6,617	8,403	10,503	13,234	16,805	21,007
	1,0	2,101	2,626	3,361	4,201	5,252	6,617	8,403	10,503	13,234	16,805	21,007
0,5	2,101	2,626	3,361	4,201	5,252	6,617	8,403	10,503	13,234	16,805	21,007	
0,0	2,101	2,626	3,361	4,201	5,252	6,617	8,403	10,503	13,234	16,805	21,007	

7,5	7,5	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000
	7,0	0,780	0,974	1,247	1,559	1,949	2,456	3,118	3,898	4,911	6,236	7,795
	6,5	1,102	1,378	1,764	2,205	2,756	3,473	4,410	5,512	6,945	8,819	11,024
	6,0	1,350	1,688	2,160	2,700	3,375	4,253	5,401	6,751	8,506	10,802	13,502
	5,5	1,559	1,949	2,495	3,118	3,898	4,911	6,236	7,795	9,822	12,473	15,591
	5,0	1,743	2,179	2,789	3,486	4,358	5,491	6,972	8,715	10,981	13,945	17,431
	4,5	1,909	2,387	3,055	3,819	4,774	6,015	7,638	9,547	12,030	15,276	19,095
	4,0	2,062	2,578	3,300	4,125	5,156	6,497	8,250	10,312	12,993	16,500	20,625
	3,5	2,205	2,756	3,528	4,410	5,512	6,945	8,819	11,024	13,891	17,639	22,049
	3,0	2,232	2,790	3,571	4,464	5,580	7,031	8,928	11,160	14,061	17,856	22,319
	2,5	2,232	2,790	3,571	4,464	5,580	7,031	8,928	11,160	14,061	17,856	22,319
	2,0	2,232	2,790	3,571	4,464	5,580	7,031	8,928	11,160	14,061	17,856	22,319
	1,5	2,232	2,790	3,571	4,464	5,580	7,031	8,928	11,160	14,061	17,856	22,319
	1,0	2,232	2,790	3,571	4,464	5,580	7,031	8,928	11,160	14,061	17,856	22,319
	0,5	2,232	2,790	3,571	4,464	5,580	7,031	8,928	11,160	14,061	17,856	22,319
0,0	2,232	2,790	3,571	4,464	5,580	7,031	8,928	11,160	14,061	17,856	22,319	
8,0	8,0	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000
	7,5	0,802	1,003	1,283	1,604	2,005	2,527	3,209	4,011	5,053	6,417	8,021
	7,0	1,134	1,418	1,815	2,269	2,836	3,573	4,538	5,672	7,147	9,075	11,344
	6,5	1,389	1,737	2,223	2,779	3,473	4,376	5,557	6,947	8,753	11,115	13,893
	6,0	1,604	2,005	2,567	3,209	4,011	5,053	6,417	8,021	10,107	12,834	16,043
	5,5	1,794	2,242	2,870	3,587	4,484	5,650	7,174	8,968	11,300	14,349	17,936
	5,0	1,965	2,456	3,144	3,930	4,912	6,189	7,859	9,824	12,378	15,719	19,648
	4,5	2,122	2,653	3,396	4,244	5,306	6,685	8,489	10,611	13,370	16,978	21,222
	4,0	2,269	2,836	3,630	4,538	5,672	7,147	9,075	11,344	14,293	18,150	22,688
	3,5	2,363	2,954	3,781	4,726	5,908	7,444	9,453	11,816	14,888	18,906	23,632
	3,0	2,363	2,954	3,781	4,726	5,908	7,444	9,453	11,816	14,888	18,906	23,632
	2,5	2,363	2,954	3,781	4,726	5,908	7,444	9,453	11,816	14,888	18,906	23,632
	2,0	2,363	2,954	3,781	4,726	5,908	7,444	9,453	11,816	14,888	18,906	23,632
	1,5	2,363	2,954	3,781	4,726	5,908	7,444	9,453	11,816	14,888	18,906	23,632
	1,0	2,363	2,954	3,781	4,726	5,908	7,444	9,453	11,816	14,888	18,906	23,632
0,5	2,363	2,954	3,781	4,726	5,908	7,444	9,453	11,816	14,888	18,906	23,632	
0,0	2,363	2,954	3,781	4,726	5,908	7,444	9,453	11,816	14,888	18,906	23,632	
P_IN INGRESSO [bar]	P_CYL USCITA [bar]	PORTATA EFFETTIVA [NL/min]										
PRESSIONI VALVOLA												
MOLTIPLICARE IL VALORE DELLA TABELLA PER		PORTATA Nominale [NL/min] - Nominal FLOW P_IN = 6,0 bar - P_CYL = 5,0 bar - Δp 1 bar										
1		1,00	1,25	1,60	2,00	2,50	3,15	4,00	5,00	6,30	8,00	10,00
10		10,0	12,5	16,0	20,0	25,0	31,5	40,0	50,0	63,0	80,0	100,0
100		100	125	160	200	250	315	400	500	630	800	1000
1000		1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
10000		10000	12500	16000	20000	25000	31500	40000	50000	63000	80000	100000

Ritorna a: <0> Indice dei contenuti

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