

# 30000 Series Varimax Allowable Pressure Drop Tables



# US Units Standard Trim

Allowable Pressure  
Drop Tables

30000 Series Varimax

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## US Units

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<b>STANDARD TRIM</b>	<b>17-4PH Shaft</b>	6"	FTO	4	
		8"	FTO	5	
		10"	FTO	6	
		12"	FTO	7	
		16"	FTO	8	
	<b>316 SS Shaft</b>	6"	FTO	9	
		8"	FTO	10	
		10"	FTO	11	
		12"	FTO	12	
		16"	FTO	13	
	<b>Nitronic 50 Shaft</b>	6"	FTO	14	
		8"	FTO	15	
		10"	FTO	16	
		12"	FTO	17	
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		<b>Shaft Material</b>	<b>Size</b>	<b>Flow</b>	<b>Page</b>
	<b>17-4ph Shaft</b>	6"	FTC	19	
		8"	FTC	20	
		10"	FTC	21	
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		16"	FTC	23	
	<b>316 SS Shaft</b>	6"	FTC	24	
		8"	FTC	25	
		10"	FTC	26	
		12"	FTC	27	
		16"	FTC	28	
	<b>Nitronic 50 Shaft</b>	6"	FTC	29	
		8"	FTC	30	
		10"	FTC	31	
		12"	FTC	32	
		16"	FTC	33	

Shaft: 17-4PH, Size 6"  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in psi	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 176 psi
T4 trim (Soft Seat)	For T < 203° F - P < 603 psi
	For T > 203° F but < 400° F - P < 309 psi

Flow to Open - Air to Close																								
Size (in.)	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi		Supply 40 psi		Supply 45 psi		Supply 50 psi		Supply 55 psi		Supply 60 psi		Supply 65 psi		Supply 70 psi		Supply 75 psi				
				2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar				
				ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	
6"	A	595	C	58	174	116	261	160	363	203	464	261	566	305	667	348	754	406			450			
			O	58	116	58	116	58	116	58	116	58	116	58	116	58	116	58	116	58			58	
	B	545	C	87	203	145	319	203	435	261	566	319	682	377	754	435			493			551		
			O	87	189	102	189	102	189	102	189	102	189	102	189	102	189	102			102			102
	C	500	C	102	247	174	377	232	508	305	653	377	754	435			508			566			638	
			O	102	247	131	276	131	276	131	276	131	276	131	276	131	276	131			131			131
	D	435	C	116	276	189	435	276	580	348	740	421	754	493			566			653			725	
			O	116	276	189	435	276	580	319	653	319	653	319			319			319			319	
	E	365	C	145	319	232	508	319	682	406	754	493			580		667			754				
			O	145	319	232	508	319	682	406	754	493			580		667			754				
	F	290	C	174	392	276	595	377	754	479			595		696		754							
			O	174	392	276	595	377	754	479			595		696		754							
	G	215	C	203	464	334	711	450	754	580			696		754									
			O	203	464	334	711	450	754	580			696		754									

Flow to Open - Air to Open							
Size (in.)	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar			
				ATA5	ATA7	ATA9	ATA13
6"	A	595	C	29	116		
			O	29	116		
	B	545	C	44	131		
			O	44	131		
	C	500	C	58	160		
			O	58	160		
	D	435	C	73	189		
			O	73	189		
	E	365	C	87	218		
			O	87	218		
	F	290	C	116	261		
			O	116	261		
	G	215	C	145	319		
			O	145	319		

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: 17-4PH, Size 8"  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in psi	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 118 psi
T4 trim (Soft Seat)	For T < 203° F - P < 294 psi
	For T > 203° F but < 400° F - P < 14 bar

Flow to Open - Air to Close																					
Size (in.)	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi		Supply 40 psi		Supply 45 psi		Supply 50 psi		Supply 55 psi		Supply 60 psi		Supply 65 psi		Supply 70 psi		Supply 75 psi	
				2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
				ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7
8"	A	1100	C	15	58	44	102	58	145	87	189	102	232	116	276	145	319	160	363	189	406
			O	15	44	29	44	29	44	29	44	29	44	29	44	29	44	29	44	29	44
	B	1010	C	29	87	44	131	73	174	102	232	131	290	145	334	174	392	203	435	232	479
			O	29	87	44	102	44	102	44	102	44	102	44	102	44	102	44	102	44	102
	C	920	C	29	102	58	145	87	203	116	276	145	334	174	392	203	450	232	508	261	566
			O	29	102	58	145	87	189	102	189	102	189	102	189	102	189	102	189	102	189
	D	805	C	44	116	73	174	102	247	145	305	174	377	203	435	232	508	276	580	305	595
			O	44	116	73	174	102	247	145	305	174	377	203	435	232	508	276	580	305	595
	E	675	C	44	131	87	203	131	276	160	363	203	435	247	508	276	595	319	595	348	
			O	44	131	87	203	131	276	160	363	203	435	247	508	276	595	319	595	348	
	F	540	C	58	160	116	247	160	334	203	435	247	522	290	595	334			377		421
			O	58	160	116	247	160	334	203	435	247	522	290	595	334			377		421
	G	395	C	87	189	131	290	189	406	247	508	290	595	348		392			450		508
			O	87	189	131	290	189	406	247	508	290	595	348		392			450		508

Flow to Open - Air to Open							
Size (in.)	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar			
				ATA5	ATA7	ATA9	ATA13
8"	A	1100	C		29		
			O		29		
	B	1010	C	15	44		
			O	15	44		
	C	920	C	15	58		
			O	15	58		
	D	805	C	15	73		
			O	15	73		
	E	675	C	29	87		
			O	29	87		
	F	540	C	44	102		
			O	44	102		
	G	395	C	44	131		
			O	44	131		

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: 17-4PH, Size 10"  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in psi	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 118 psi
T4 trim (Soft Seat)	For T < 203° F - P < 338 psi
	For T > 203° F but < 400° F - P < 162 psi

Flow to Open - Air to Close																							
Size (in.)	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi		Supply 40 psi		Supply 45 psi		Supply 50 psi		Supply 55 psi		Supply 60 psi		Supply 65 psi		Supply 70 psi		Supply 75 psi			
				2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar			
				ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9
				10"	A	1800	C	15	87	44	145	58	203	87	261	102	319	116	377	145	421	160	450
O	15	73	29				73	29	73	29	73	29	73	29	73	29	73	29	73	29	73	29	
B	1670	C	29		116	58	174	73	247	102	305	131	377	145	450	174	450	203		218			
		O	29		116	58	174	73	218	73	218	73	218	73	218	73	218	73		73			
C	1430	C	29		131	58	203	87	290	116	363	145	435	174	450	203		232		261			
		O	29		131	58	203	87	290	116	363	145	435	174	450	203		232		261			
D	1155	C	44		160	73	247	102	319	145	406	174	450	203		232		261		290			
		O	44		160	73	247	102	319	145	406	174	450	203		232		261		290			
E	910	C	58		174	87	276	131	377	160	450	189		232		276		305		334			
		O	58		174	87	276	131	377	160	450	189		232		276		305		334			
F	730	C	58		218	116	334	145	450	189		247		276		319		377		406			
		O	58		218	116	334	145	450	189		247		276		319		377		406			
G	535	C	87		261	131	392	189	450	232		290		334		392		435		450			
		O	87		261	131	392	189	450	232		290		334		392		435		450			

Flow to Open - Air to Open							
Size (in.)	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar			
				ATA5	ATA7	ATA9	ATA13
				10"	A	1800	C
O		15	58				
B	1670	C			15	73	
		O			15	73	
C	1430	C			15	87	
		O			15	87	
D	1155	C			29	101	
		O			29	101	
E	910	C			29	116	
		O			29	116	
F	730	C			44	145	
		O			44	145	
G	535	C			44	174	
		O			44	174	

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: 17-4PH, Size 12"  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in psi	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 118 psi
T4 trim (Soft Seat)	For T < 203° F - P < 1132 psi For T > 203° F but < 400° F - P < 147 psi

Flow to Open - Air to Close																					
Size (in.)	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi		Supply 40 psi		Supply 45 psi		Supply 50 psi		Supply 55 psi		Supply 60 psi		Supply 65 psi		Supply 70 psi		Supply 75 psi	
				2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
				ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9
12"	A	2600	C		44	15	73	29	116	44	145	44	174	58	203	73	232	87	261	102	290
			O		44	15	44	15	44	15	44	15	44	15	44	15	44	15	44	15	44
	B	2235	C	15	58	29	102	29	131	44	174	58	203	87	247	87	276	102	305	116	
			O	15	58	29	87	29	87	29	87	29	87	29	87	29	87	29	87	29	87
	C	1875	C	15	73	29	116	44	160	58	189	73	247	87	276	102	305	131		145	
			O	15	73	29	116	44	160	58	160	58	160	58	160	58	160	58	160	58	
	D	1540	C	15	87	29	131	58	174	73	232	87	276	102	305	131		145		160	
			O	15	87	29	131	58	174	73	232	87	261	102	261	102		102		102	
	E	1260	C	29	102	44	145	58	203	87	261	102	305	131		145		160		189	
			O	29	102	44	145	58	203	87	261	102	305	131		145		160		189	
	F	1005	C	29	116	58	174	87	247	102	305	131		145		174		203		232	
			O	29	116	58	174	87	247	102	305	131		145		174		203		232	
	G	750	C	44	145	73	218	102	290	131	305	160		174		203		247		261	
			O	44	145	73	218	102	290	131	305	160		174		203		247		261	

Flow to Open - Air to Open							
Size (in.)	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar			
				ATA5	ATA7	ATA9	ATA13
12"	A	2600	C			29	
			O			29	
	B	2235	C			29	
			O			29	
	C	1875	C			44	
			O			44	
	D	1540	C			44	
			O			44	
	E	1260	C		15	58	
			O		15	58	
	F	1005	C		15	73	
			O		15	73	
	G	750	C		29	87	
			O		29	87	

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: 17-4PH, Size 16"  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in psi	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 118 psi
T4 trim (Soft Seat)	For T < 203° F - P < 191 psi For T > 203° F but < 400° F - P < 132 psi

Flow to Open - Air to Close																						
Size (in.)	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi		Supply 40 psi		Supply 45 psi		Supply 50 psi		Supply 55 psi		Supply 60 psi		Supply 65 psi		Supply 70 psi		Supply 75 psi		
				2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar		
				ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9
16"	A	4830	C	15	29	29	58	44	87	58	102	73	131	87	160	102	174	116	203	116	232	
			O	15	29	15	29	15	29	15	29	15	29	15	29	15	29	15	29	15	29	15
	B	4150	C	15	44	29	73	44	102	58	131	87	160	102	189	116	218	131	232	145		
			O	15	44	29	58	29	58	29	58	29	58	29	58	29	58	29	58	29	58	29
	C	3485	C	29	58	44	87	58	116	87	160	102	189	116	232	131	232	160			174	
			O	29	58	44	87	58	116	58	131	58	131	58	131	58	131	58	131	58		
	D	2860	C	29		44		73		87		116		131		160		174			189	
			O	29		44		73		87		116		116		116		116			116	
	E	2340	C	29		58		87		102		131		160		174		203			232	
			O	29		58		87		102		131		160		174		203			232	
	F	1865	C	44		73		102		131		160		189		218		232				
			O	44		73		102		131		160		189		218		232				
	G	1395	C	58		87		116		160		189		232		232						
			O	58		87		116		160		189		232		232						

Flow to Open - Air to Open							
Size (in.)	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar			
				ATA5	ATA7	ATA9	ATA13
16"	A	4830	C				15
			O				15
	B	4150	C			15	29
			O			15	29
	C	3485	C			15	29
			O			15	29
	D	2860	C			15	
			O			15	
	E	2340	C			15	
			O			15	
	F	1865	C			29	
			O			29	
	G	1395	C			29	
			O			29	

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN



Shaft: 316 SS, Size 6"  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in psi	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 176 psi
T4 trim (Soft Seat)	For T < 203° F - P < 500 psi
	For T > 203° F but < 400° F - P < 250 psi

Flow to Open - Air to Close																						
Size (in.)	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi		Supply 40 psi		Supply 45 psi		Supply 50 psi		Supply 55 psi		Supply 60 psi		Supply 65 psi		Supply 70 psi		Supply 75 psi		
				2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar		
				ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5
6"	A	595	C	58	174	116	261	160	348	203		261		305		348						
			O	58	116	58	116	58	116	58		58		58		58						
	B	545	C	87	203	145	319	203	348	261		319		348								
			O	87	189	102	189	102	189	102		102		102								
	C	500	C	102	247	174	348	232		305		348										
			O	102	247	131	276	131		131		131										
	D	435	C	116	276	189	348	276		348												
			O	116	276	189	348	276		319												
	E	365	C	145	319	232	348	319		348												
			O	145	319	232	348	319		348												
	F	290	C	174	348	276		348														
			O	174	348	276		348														
	G	215	C	203	348	334		348														
			O	203	348	334		348														

Flow to Open - Air to Open							
Size (in.)	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar			
				ATA5	ATA7	ATA9	ATA13
6"	A	595	C	29	116		
			O	29	116		
	B	545	C	44	131		
			O	44	131		
	C	500	C	58	160		
			O	58	160		
	D	435	C	73	189		
			O	73	189		
	E	365	C	87	218		
			O	87	218		
	F	290	C	116	261		
			O	116	261		
	G	215	C	145	319		
			O	145	319		

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: 316 SS, Size 8"  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in psi	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 118 psi
T4 trim (Soft Seat)	For T < 203° F - P < 294 psi For T > 203° F but < 400° F - P < 14 bar

Flow to Open - Air to Close																					
Size (in.)	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi		Supply 40 psi		Supply 45 psi		Supply 50 psi		Supply 55 psi		Supply 60 psi		Supply 65 psi		Supply 70 psi		Supply 75 psi	
				2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
				ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7
8"	A	1100	C	15	58	44	102	58	145	87	189	102	232	116		145		160		189	
			O	15	44	29	44	29	44	29	44	29	44	29	44	29	29		29		29
	B	1010	C	29	87	44	131	73	174	102	232	131		145		174		203		232	
			O	29	87	44	102	44	102	44	102	44		44		44		44		44	
	C	920	C	29	102	58	145	87	203	116	232	145		174		203		232			
			O	29	102	58	145	87	189	102	189	102		102		102		102		102	
	D	805	C	44	116	73	174	102	232	145		174		203		232					
			O	44	116	73	174	102	232	145		174		203		232					
	E	675	C	44	131	87	203	131	232	160		203		232							
			O	44	131	87	203	131	232	160		203		232							
	F	540	C	58	160	116	232	160		203		232									
			O	58	160	116	232	160		203		232									
	G	395	C	87	189	131	232	189		232											
			O	87	189	131	232	189		232											

Flow to Open - Air to Open							
Size (in.)	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar			
				ATA5	ATA7	ATA9	ATA13
8"	A	1100	C		29		
			O		29		
	B	1010	C	15	44		
			O	15	44		
	C	920	C	15	58		
			O	15	58		
	D	805	C	15	73		
			O	15	73		
	E	675	C	29	87		
			O	29	87		
	F	540	C	44	102		
			O	44	102		
	G	395	C	44	131		
			O	44	131		

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: 316 SS, Size 10"  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in psi	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 118 psi
T4 trim (Soft Seat)	For T < 203° F - P < 338 psi
	For T > 203° F but < 400° F - P < 162 psi

Flow to Open - Air to Close																							
Size (in.)	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi		Supply 40 psi		Supply 45 psi		Supply 50 psi		Supply 55 psi		Supply 60 psi		Supply 65 psi		Supply 70 psi		Supply 75 psi			
				2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar			
				ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9
				10"	A	1800	C	15	87	44	145	58	189	87	102	116	145	160	189			160	189
O	15	73	29				73	29	73	29	29	29	29	29	29	29			29	29			
B	1670	C	29		116	58	174	73	189	102	131	145	174	189					160	189			
		O	29		116	58	174	73	189	73	73	73	73	73	73			73	73				
C	1430	C	29		131	58	189	87	116	145	174	189							160	189			
		O	29		131	58	189	87	116	145	174	189							160	189			
D	1155	C	44		160	73	189	102	145	174	189								160	189			
		O	44		160	73	189	102	145	174	189								160	189			
E	910	C	58		174	87	189	131	160	189									160	189			
		O	58		174	87	189	131	160	189									160	189			
F	730	C	58		189	116	145	189											160	189			
		O	58		189	116	145	189											160	189			
G	535	C	87		189	131	189	189											160	189			
		O	87		189	131	189	189											160	189			

Flow to Open - Air to Open							
Size (in.)	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar			
				ATA5	ATA7	ATA9	ATA13
				10"	A	1800	C
O		15	58				
B	1670	C			15	73	
		O			15	73	
C	1430	C			15	87	
		O			15	87	
D	1155	C			29	101	
		O			29	101	
E	910	C			29	116	
		O			29	116	
F	730	C			44	145	
		O			44	145	
G	535	C			44	174	
		O			44	174	

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: 316 SS, Size 12"  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in psi	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 118 psi
T4 trim (Soft Seat)	For T < 203° F - P < 1132 psi For T > 203° F but < 400° F - P < 147 psi

Flow to Open - Air to Close																					
Size (in.)	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi		Supply 40 psi		Supply 45 psi		Supply 50 psi		Supply 55 psi		Supply 60 psi		Supply 65 psi		Supply 70 psi		Supply 75 psi	
				2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
				ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9
12"	A	2600	C		44	15	73	29	116	44	145	44	160	58		73		87		102	
			O		44	15	44	15	44	15	44	15	44	15	44	15		15		15	
	B	2235	C	15	58	29	102	29	131	44	160	58		87		87		102		116	
			O	15	58	29	87	29	87	29	87	29		29		29		29		29	
	C	1875	C	15	73	29	116	44	160	58	160	73		87		102		131		145	
			O	15	73	29	116	44	160	58	160	58		58		58		58		58	
	D	1540	C	15	87	29	131	58	160	73		87		102		131		145		160	
			O	15	87	29	131	58	160	73		87		102		102		102		102	
	E	1260	C	29	102	44	145	58	160	87		102		131		145		160			
			O	29	102	44	145	58	160	87		102		131		145		160		160	
	F	1005	C	29	116	58	160	87		102		131		145		160					
			O	29	116	58	160	87		102		131		145		160					
	G	750	C	44	145	73	160	102		131		160		160							
			O	44	145	73	160	102		131		160		160		160					

Flow to Open - Air to Open							
Size (in.)	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar			
				ATA5	ATA7	ATA9	ATA13
12"	A	2600	C			29	
			O			29	
	B	2235	C			29	
			O			29	
	C	1875	C			44	
			O			44	
	D	1540	C			44	
			O			44	
	E	1260	C		15	58	
			O		15	58	
	F	1005	C		15	73	
			O		15	73	
	G	750	C		29	87	
			O		29	87	

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: 316 SS, Size 16"  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in psi	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 118 psi
T4 trim (Soft Seat)	For T < 203° F - P < 191 psi
	For T > 203° F but < 400° F - P < 132 psi

Flow to Open - Air to Close																						
Size (in.)	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi		Supply 40 psi		Supply 45 psi		Supply 50 psi		Supply 55 psi		Supply 60 psi		Supply 65 psi		Supply 70 psi		Supply 75 psi		
				2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar		
				ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9
16"	A	4830	C	15	29	29	58	44	87	58	102	73	131	87	160	102	160	116			116	
			O	15	29	15	29	15	29	15	29	15	29	15	29	15	29	15	29	15		
	B	4150	C	15	44	29	73	44	102	58	131	87	160	102		116		131			145	
			O	15	44	29	58	29	58	29	58	29	58	29	58	29		29		29		
	C	3485	C	29	58	44	87	58	116	87	160	102	160	116		131		160			160	
			O	29	58	44	87	58	116	58	131	58	131	58		58		58			58	
	D	2860	C	29		44		73		87		116		131		160		160			160	
			O	29		44		73		87		116		116		116		116			116	
	E	2340	C	29		58		87		102		131		160		160		160				
			O	29		58		87		102		131		160		160		160				
	F	1865	C	44		73		102		131		160										
			O	44		73		102		131		160										
	G	1395	C	58		87		116		160		160										
			O	58		87		116		160		160										

Flow to Open - Air to Open							
Size (in.)	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar			
				ATA5	ATA7	ATA9	ATA13
16"	A	4830	C				15
			O				15
	B	4150	C			15	29
			O			15	29
	C	3485	C			15	29
			O			15	29
	D	2860	C			15	
			O			15	
	E	2340	C			15	
			O			15	
	F	1865	C			29	
			O			29	
	G	1395	C			29	
			O			29	

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: Nitronic 50, Size 6"  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in psi	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 176 psi
T4 trim (Soft Seat)	For T < 203° F - P < 500 psi
	For T > 203° F but < 400° F - P < 250 psi

Flow to Open - Air to Close																							
Size (in.)	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi		Supply 40 psi		Supply 45 psi		Supply 50 psi		Supply 55 psi		Supply 60 psi		Supply 65 psi		Supply 70 psi		Supply 75 psi			
				2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar			
				ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7
				6"	A	595	C	58	174	116	261	160	363	203	464	261	566	305	580	348		406	
O	58	116	58				116	58	116	58	116	58	116	58	116	58	116	58		58		58	
B	545	C	87		203	145	319	203	435	261	566	319	580	377		435		493		551			
		O	87		189	102	189	102	189	102	189	102	189	102	189	102		102		102		102	
C	500	C	102		247	174	377	232	508	305	580	377		435		508		566		580			
		O	102		247	131	276	131	276	131	276	131	276	131		131		131		131		131	
D	435	C	116		276	189	435	276	580	348		421		493		566		580					
		O	116		276	189	435	276	580	319		319		319		319		319					
E	365	C	145		319	232	508	319	580	406		493		580									
		O	145		319	232	508	319	580	406		493		580									
F	290	C	174		392	276	580	377		479		580											
		O	174		392	276	580	377		479		580											
G	215	C	203		464	334	580	450		580		580											
		O	203		464	334	580	450		580		580											

Flow to Open - Air to Open							
Size (in.)	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar			
				ATA5	ATA7	ATA9	ATA13
				6"	A	595	C
O	29	116					
B	545	C	44		131		
		O	44		131		
C	500	C	58		160		
		O	58		160		
D	435	C	73		189		
		O	73		189		
E	365	C	87		218		
		O	87		218		
F	290	C	116		261		
		O	116		261		
G	215	C	145		319		
		O	145		319		

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: Nitronic 50, Size 8"  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in psi	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 118 psi
T4 trim (Soft Seat)	For T < 203° F - P < 294 psi
	For T > 203° F but < 400° F - P < 14 bar

Flow to Open - Air to Close																							
Size (in.)	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi		Supply 40 psi		Supply 45 psi		Supply 50 psi		Supply 55 psi		Supply 60 psi		Supply 65 psi		Supply 70 psi		Supply 75 psi			
				2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar			
				ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7
				8"	A	1100	C	15	58	44	102	58	145	87	189	102	232	116	276	145	319	160	363
O	15	44	29				44	29	44	29	44	29	44	29	44	29	44	29	44	29	44	29	44
B	1010	C	29		87	44	131	73	174	102	232	131	290	145	334	174	392	203	406	232			
		O	29		87	44	102	44	102	44	102	44	102	44	102	44	102	44	102	44	102	44	
C	920	C	29		102	58	145	87	203	116	276	145	334	174	392	203	406	232		261			
		O	29		102	58	145	87	189	102	189	102	189	102	189	102	189	102	189	102	102		
D	805	C	44		116	73	174	102	247	145	305	174	377	203	406	232		276		305			
		O	44		116	73	174	102	247	145	305	174	377	203	406	232		276		305			
E	675	C	44		131	87	203	131	276	160	363	203	406	247		276		319		348			
		O	44		131	87	203	131	276	160	363	203	406	247		276		319		348			
F	540	C	58		160	116	247	160	334	203	406	247		290		334		377		406			
		O	58		160	116	247	160	334	203	406	247		290		334		377		406			
G	395	C	87		189	131	290	189	406	247		290		348		392		406					
		O	87		189	131	290	189	406	247		290		348		392		406					

Flow to Open - Air to Open							
Size (in.)	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar			
				ATA5	ATA7	ATA9	ATA13
				8"	A	1100	C
O		29					
B	1010	C	15		44		
		O	15		44		
C	920	C	15		58		
		O	15		58		
D	805	C	15		73		
		O	15		73		
E	675	C	29		87		
		O	29		87		
F	540	C	44		102		
		O	44		102		
G	395	C	44		131		
		O	44		131		

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: Nitronic 50, Size 10"  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in psi	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 118 psi
T4 trim (Soft Seat)	For T < 203° F - P < 338 psi For T > 203° F but < 400° F - P < 162 psi

Flow to Open - Air to Close																							
Size (in.)	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi		Supply 40 psi		Supply 45 psi		Supply 50 psi		Supply 55 psi		Supply 60 psi		Supply 65 psi		Supply 70 psi		Supply 75 psi			
				2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar			
				ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9
				10"	A	1800	C	15	87	44	145	58	203	87	261	102	319	116	319	145		160	
O	15	73	29				73	29	73	29	73	29	73	29	73	29	73		29		29		
B	1670	C	29		116	58	174	73	247	102	305	131	319	145		174		203		218			
		O	29		116	58	174	73	218	73	218	73	218	73		73		73		73			
C	1430	C	29		131	58	203	87	290	116	319	145		174		203		232		261			
		O	29		131	58	203	87	290	116	319	145		174		203		232		261			
D	1155	C	44		160	73	247	102	319	145		174		203		232		261		290			
		O	44		160	73	247	102	319	145		174		203		232		261		290			
E	910	C	58		174	87	276	131	319	160		189		232		276		305		319			
		O	58		174	87	276	131	319	160		189		232		276		305		319			
F	730	C	58		218	116	319	145		189		247		276		319							
		O	58		218	116	319	145		189		247		276		319							
G	535	C	87		261	131	319	189		232		290		319									
		O	87		261	131	319	189		232		290		319									

Flow to Open - Air to Open							
Size (in.)	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi			
				2.4 bar			
				ATA5	ATA7	ATA9	ATA13
10"	A	1800	C		15	58	
			O		15	58	
	B	1670	C		15	73	
			O		15	73	
	C	1430	C		15	87	
			O		15	87	
	D	1155	C		29	101	
			O		29	101	
	E	910	C		29	116	
			O		29	116	
	F	730	C		44	145	
			O		44	145	
	G	535	C		44	174	
			O		44	174	

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN



Shaft: Nitronic 50, Size 12"  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in psi	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 118 psi
T4 trim (Soft Seat)	For T < 203° F - P < 113 psi For T > 203° F but < 400° F - P < 147 psi

Flow to Open - Air to Close																								
Size (in.)	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi		Supply 40 psi		Supply 45 psi		Supply 50 psi		Supply 55 psi		Supply 60 psi		Supply 65 psi		Supply 70 psi		Supply 75 psi				
				2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar				
				ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	
12"	A	2600	C		44	15	73	29	116	44	145	44	174	58	203	73	232	87	261	102	276			
			O		44	15	44	15	44	15	44	15	44	15	44	15	44	15	44	15	44	15	44	
	B	2235	C	15	58	29	102	29	131	44	174	58	203	87	247	87	276	102			116			
			O	15	58	29	87	29	87	29	87	29	87	29	87	29	87	29	87	29			29	
	C	1875	C	15	73	29	116	44	160	58	189	73	247	87	276	102			131			145		
			O	15	73	29	116	44	160	58	160	58	160	58	160	58	160	58			58		58	
	D	1540	C	15	87	29	131	58	174	73	232	87	276	102			131			145			160	
			O	15	87	29	131	58	174	73	232	87	261	102			102			102			102	
	E	1260	C	29	102	44	145	58	203	87	261	102	276	131			145			160			189	
			O	29	102	44	145	58	203	87	261	102	276	131			145			160			189	
	F	1005	C	29	116	58	174	87	247	102	276	131			145		174			203			232	
			O	29	116	58	174	87	247	102	276	131			145		174			203			232	
	G	750	C	44	145	73	218	102	276	131			160		174		203			247			261	
			O	44	145	73	218	102	276	131			160		174		203			247			261	

Flow to Open - Air to Open							
Size (in.)	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar			
				ATA5	ATA7	ATA9	ATA13
12"	A	2600	C			29	
			O			29	
	B	2235	C			29	
			O			29	
	C	1875	C			44	
			O			44	
	D	1540	C			44	
			O			44	
	E	1260	C		15	58	
			O		15	58	
	F	1005	C		15	73	
			O		15	73	
	G	750	C		29	87	
			O		29	87	

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: Nitronic 50, Size 16"  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in psi	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 118 psi
T4 trim (Soft Seat)	For T < 203° F - P < 191 psi For T > 203° F but < 400° F - P < 132 psi

Flow to Open - Air to Close																						
Size (in.)	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi		Supply 40 psi		Supply 45 psi		Supply 50 psi		Supply 55 psi		Supply 60 psi		Supply 65 psi		Supply 70 psi		Supply 75 psi		
				2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar		
				ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9
16"	A	4830	C	15	29	29	58	44	87	58	102	73	131	87	160	102	174	116	203	116	232	
			O	15	29	15	29	15	29	15	29	15	29	15	29	15	29	15	29	15	29	15
	B	4150	C	15	44	29	73	44	102	58	131	87	160	102	189	116	218	131	232	145		
			O	15	44	29	58	29	58	29	58	29	58	29	58	29	58	29	58	29	58	29
	C	3485	C	29	58	44	87	58	116	87	160	102	189	116	232	131	232	160			174	
			O	29	58	44	87	58	116	58	131	58	131	58	131	58	131	58	131	58		
	D	2860	C	29		44		73		87		116		131		160		174			189	
			O	29		44		73		87		116		116		116		116			116	
	E	2340	C	29		58		87		102		131		160		174		203			232	
			O	29		58		87		102		131		160		174		203			232	
	F	1865	C	44		73		102		131		160		189		218		232				
			O	44		73		102		131		160		189		218		232				
	G	1395	C	58		87		116		160		189		232		232						
			O	58		87		116		160		189		232		232						

Flow to Open - Air to Open							
Size (in.)	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar			
				ATA5	ATA7	ATA9	ATA13
16"	A	4830	C				15
			O				15
	B	4150	C			15	29
			O			15	29
	C	3485	C			15	29
			O			15	29
	D	2860	C			15	
			O			15	
	E	2340	C			15	
			O			15	
	F	1865	C			29	
			O			29	
	G	1395	C			29	
			O			29	

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: 17-4PH, Size 6"  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in psi	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 176 psi
T4 trim (Soft Seat)	For T < 203° F - P < 500 psi
	For T > 203° F but < 400° F - P < 250 psi

Flow to Close - Air to Open																					
Size (in.)	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi		Supply 40 psi		Supply 45 psi		Supply 50 psi		Supply 55 psi		Supply 60 psi		Supply 65 psi		Supply 70 psi		Supply 75 psi	
				2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
				ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7
6"	A	550	C	276	551	319	653	363	754	421	754	464	754	493	754						
			O	29	58	44	87	58	116	73	145	87	174	102	203						
	B	510	C	319	667	377	754	435	754	493	754	551	754	609	754	667	754	696	754		
			O	29	58	44	102	58	131	87	174	102	203	116	232	131	276	145	290		
	C	460	C	377	754	435	754	508	754	566	754	638	754	711	754	754	754	754	754	754	754
			O	29	73	58	116	73	145	87	189	116	218	131	261	145	290	160	334	174	
	D	405	C	421	754	493	754	566	754	653	754	725	754	754	754	754	754	754	754	754	754
			O	44	87	58	131	87	174	116	232	131	276	160	319	174	363	203		218	
	E	355	C	479	754	580	754	667	754	754	754	754	754	754	754	754	754	754	754	754	754
			O	58	116	87	174	116	247	145	305	174	363	203	406	232		261		290	
	F	315	C	580	754	682	754	754	754	754	754	754	754	754	754	754	754	754	754	754	754
			O	87	160	116	247	160	334	203	421	247	479	290		319		363		406	
	G	240	C	682	754	754	754	754	754	754	754	754	754	754	754	754	754	754	754	754	754
			O	116	232	174	348	232	464	276	566	334		392		450		508		566	

Flow to Close - Air to Close							
Size (in.)	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar			
				ATA5	ATA7	ATA9	ATA13
6"	A	595	C	247	493		
			O	15	44		
	B	545	C	290	595		
			O	15	44		
	C	500	C	334	682		
			O	29	44		
	D	435	C	377	754		
			O	29	58		
	E	365	C	435	754		
			O	44	87		
	F	290	C	522	754		
			O	58	116		
	G	215	C	609	754		
			O	73	160		

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: 17-4PH, Size 8"  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in psi	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 118 psi
T4 trim (Soft Seat)	For T < 203° F - P < 294 psi
	For T > 203° F but < 400° F - P < 206 psi

Flow to Close - Air to Open																						
Size (in.)	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi		Supply 40 psi		Supply 45 psi		Supply 50 psi		Supply 55 psi		Supply 60 psi		Supply 65 psi		Supply 70 psi		Supply 75 psi		
				2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar		
				ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5
8"	A	950	C	116	247	131	276	160	319	174	363	174	377									
			O	15	29	15	44	29	58	29	73	44	87									
	B	890	C	145	290	160	334	189	392	218	435	247	493	261	537	290	595	319	595	334	595	
			O	15	29	15	44	29	58	44	87	44	102	58	116	58	131	73	145	87	160	
	C	800	C	160	319	189	392	218	450	247	508	276	566	305	595	334	595	363	595	392	595	
			O	15	29	29	58	29	73	44	102	58	116	58	131	73	145	87	174	87	189	
	D	705	C	174	377	218	435	247	508	276	566	305	595	348	595	377	595	406	595	435	595	
			O	15	44	29	73	44	102	58	116	58	145	87	160	87	189	102	203	116	232	
	E	620	C	203	421	247	508	290	580	319	595	363	595	406	595	435	595	479	595	508	595	
			O	29	58	44	102	58	131	73	160	87	189	116	218	131	261	145	290	160	319	
	F	545	C	247	508	290	595	334	595	377	595	421	595	464	595	522	595	566	595	595	595	
			O	44	87	58	131	87	174	116	218	131	261	145	305	174	348	189	406	218	421	
	G	420	C	290	595	348	595	392	595	450	595	508	595	551	595	595	595	595	595	595	595	
			O	58	131	102	189	131	261	160	319	189	392	218	450	261	508	290		319		

Flow to Close - Air to Close							
Size (in.)	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar			
				ATA5	ATA7	ATA9	ATA13
8"	A	950	C	102	203		
			O	15	15		
	B	890	C	131	261		
			O	15	15		
	C	800	C	145	290		
			O	15	29		
	D	705	C	160	334		
			O	15	29		
	E	620	C	189	377		
			O	15	44		
	F	545	C	218	450		
			O	29	58		
	G	420	C	261	537		
			O	44	87		

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: 17-4PH, Size 10"  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in psi	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 118 psi
T4 trim (Soft Seat)	For T < 203° F - P < 338 psi For T > 203° F but < 400° F - P < 162 psi

Flow to Close - Air to Open																						
Size (in.)	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi		Supply 40 psi		Supply 45 psi		Supply 50 psi		Supply 55 psi		Supply 60 psi		Supply 65 psi		Supply 70 psi		Supply 75 psi		
				2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar		
				ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7
10"	A	1600	C	116	305	131	363	145	421													
			O	15	44	29	73	29	102													
	B	1450	C	131	377	160	435	174	450	203	450	232	450	261	450	276	450	305	450	319	450	
			O	15	44	29	87	29	102	44	131	58	160	58	189	73	218	87	247	102	261	
	C	1295	C	160	421	174	450	203	450	232	450	261	450	290	450	319	450	348	450	377		
			O	15	58	29	87	44	116	44	145	58	174	73	203	87	247	102	261	102		
	D	1110	C	174	450	203	450	232	450	276	450	305	450	334	450	363	450	392		421		
			O	29	73	44	116	58	145	73	189	87	232	102	261	116	290	131		145		
	E	935	C	203	450	232	450	276	450	305	450	348	450	377	450	421		450		450		
			O	29	102	58	160	73	218	102	276	116	319	131	363	160		174		189		
	F	785	C	247	450	276	450	319	450	377	450	406	450	450		450		450		450		
			O	58	160	87	232	116	305	145	392	174	435	203		232		261		290		
	G	610	C	276	450	334	450	392	450	435		450		450		450		450		450		
			O	87	247	131	363	174	450	218		261		305		348		406		450		

Flow to Close - Air to Close							
Size (in.)	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar			
				ATA5	ATA7	ATA9	ATA13
10"	A	1600	C		102	276	
			O		15	29	
	B	1450	C		116	334	
			O		15	29	
	C	1295	C		131	377	
			O		15	44	
	D	1110	C		160	435	
			O		15	44	
	E	935	C		174	450	
			O		29	73	
	F	785	C		218	450	
			O		44	116	
	G	610	C		247	450	
			O		58	174	

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: 17-4PH, Size 12"  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in psi	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 118 psi
T4 trim (Soft Seat)	For T < 203° F - P < 113 psi For T > 203° F but < 400° F - P < 147 psi

Flow to Close - Air to Open																					
Size (in.)	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi		Supply 40 psi		Supply 45 psi		Supply 50 psi		Supply 55 psi		Supply 60 psi		Supply 65 psi		Supply 70 psi		Supply 75 psi	
				2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
				ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9
12"	A	2400	C	58	174	73	203	87	232	102	261	102	305	116	305						
			O		15		29	15	29	15	44	15	44	15	58						
	B	2140	C	73	203	87	247	102	276	116	305	131	305	145	305	160	305	174	305	174	305
			O		15	15	29	15	29	15	44	15	58	15	58	29	73	29	87	29	87
	C	1810	C	87	232	102	276	116	305	131	305	145	305	160	305	218	305	189	305	203	305
			O		15	15	29	15	44	15	44	15	58	29	73	29	87	29	102	29	102
	D	1520	C	102	276	116	305	131	305	145	305	160	305	189	305	203	305	218	305	247	305
			O		15	29	15	44	15	58	29	73	29	87	29	102	44	116	44	131	44
	E	1260	C	116	305	131	305	145	305	174	305	189	305	218	305	232	305	261	305	276	305
			O		15	44	15	58	29	87	29	102	44	131	58	145	58	174	73	189	73
	F	1035	C	131	305	160	305	174	305	203	305	232	305	261	305	276	305	305	305	305	305
			O		15	58	29	102	44	131	58	160	73	203	232	232	102	276	116	290	116
	G	805	C	160	305	189	305	218	305	247	305	276	305	305		305			305		305
			O		29	102	58	160	73	218	102	276	116	305	131		160		174		189

Flow to Close - Air to Close							
Size (in.)	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar			
				ATA5	ATA7	ATA9	ATA13
12"	A	2400	C		58	160	
			O			15	
	B	2140	C		58	189	
			O			15	
	C	1810	C		73	203	
			O			15	
	D	1520	C		87	247	
			O			15	
	E	1260	C		102	276	
			O			15	29
	F	1035	C		116	305	
			O			15	44
	G	805	C		145	305	
			O			29	73

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: 17-4PH, Size 16"  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in psi	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 118 psi
T4 trim (Soft Seat)	For T < 203° F - P < 191 psi
	For T > 203° F but < 400° F - P < 132 psi

Flow to Close - Air to Open																						
Size (in.)	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi		Supply 40 psi		Supply 45 psi		Supply 50 psi		Supply 55 psi		Supply 60 psi		Supply 65 psi		Supply 70 psi		Supply 75 psi		
				2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar		
				ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9
16"	A	4460	C	73	131	87	160	102	174	116	203	131	232	131	232							
			O		15	15	15	15	29	15	29	15	29	15	44							
	B	3975	C	87	160	102	189	116	218	131	232	160	232	174	232	189	232	203	232	218	232	
			O		15	15	15	15	29	15	29	15	44	29	44	29	58	29	58	29	58	29
	C	3365	C	102	189	116	218	145	232	160	232	174	232	189	232	218	232	232	232	232	232	
			O		15	15	15	15	29	15	44	29	44	29	58	29	58	44	73	44	87	
	D	2825	C	116		131		160		174		203		218		232		232		232		232
			O	15		15		15		29		29		44		44		44		44		58
	E	2340	C	131		160		174		203		232		232		232		232		232		232
			O	15		29		29		44		44		58		73		87		87		87
	F	1925	C	160		189		218		232		232		232		232		232		232		232
			O	29		44		58		73		87		102		116		131		145		145
	G	1495	C	189		218		232		232		232		232		232		232		232		232
			O	44		58		87		116		131		160		174		203		232		232

Flow to Close - Air to Close							
Size mm	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar			
				ATA5	ATA7	ATA9	ATA13
16"	A	4460	C			58	116
			O				
	B	3975	C			87	145
			O				
	C	3365	C			87	160
			O				15
	D	2825	C			102	
			O				
	E	2340	C			116	
			O				15
	F	1925	C			145	
			O				15
	G	1495	C			160	
			O				29

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: 316 SS, Size 6"  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in psi	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 176 psi
T4 trim (Soft Seat)	For T < 203° F - P < 500 psi
	For T > 203° F but < 400° F - P < 250 psi

Flow to Close - Air to Open																							
Size (in.)	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi		Supply 40 psi		Supply 45 psi		Supply 50 psi		Supply 55 psi		Supply 60 psi		Supply 65 psi		Supply 70 psi		Supply 75 psi			
				2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar			
				ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7
				6"	A	550	C	276	377	319	377	363	377	377		377		377					
O	29	58	44				87	58	102	73		87		102									
B	510	C	319		377	377	377	377	377	377		377		377									
		O	29		58	44	102	58	102	87		102		102									
C	460	C	377		377	377	377	377		377		377											
		O	29		73	58	102	73		87		102											
D	405	C	377		377	377	377	377		377													
		O	44		87	58	116	87		116													
E	355	C	377		377	377	377	377		377													
		O	58		116	87	131	116		131													
F	315	C	377		377	377		377															
		O	87		145	116		145															
G	240	C	377		377	377		377															
		O	116		174	174		174															

Flow to Close - Air to Close							
Size (in.)	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi			
				2.4 bar			
				ATA5	ATA7	ATA9	ATA13
6"	A	595	C	247	377		
			O	15	44		
	B	545	C	290	377		
			O	15	44		
	C	500	C	334	377		
			O	29	44		
	D	435	C	377	377		
			O	29	58		
	E	365	C	377	377		
			O	44	87		
	F	290	C	377	377		
			O	58	116		
	G	215	C	377	377		
			O	73	160		

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN



Shaft: 316 SS, Size 8"  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in psi	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 118 psi
T4 trim (Soft Seat)	For T < 203° F - P < 294 psi For T > 203° F but < 400° F - P < 14 bar

Flow to Close - Air to Open																						
Size (in.)	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi		Supply 40 psi		Supply 45 psi		Supply 50 psi		Supply 55 psi		Supply 60 psi		Supply 65 psi		Supply 70 psi		Supply 75 psi		
				2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar		
				ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5
8"	A	950	C	116	247	131	261	160	261	174	261	174	261									
			O	15	29	15	44	29	58	29	73	44	87									
	B	890	C	145	261	160	261	189	261	218	261	247	261	261		261		261			261	
			O	15	29	15	44	29	58	44	87	44	87	58		58		73			87	
	C	800	C	160	261	189	261	218	261	247	261	261		261		261		261			261	
			O	15	29	29	58	29	73	44	87	58		58		73		87				
	D	705	C	174	261	218	261	247	261	261	261		261		261		261					
			O	15	44	29	73	44	87	58		58		87		87						
	E	620	C	203	261	247	261	261	261	261		261		261		261						
			O	29	58	44	102	58	102	73		87		102								
	F	545	C	247	261	261	261	261		261		261		261								
			O	44	87	58	131	87		116		131										
	G	420	C	261	261	261	261	261		261												
			O	58	131	102	160	131		160												

Flow to Close - Air to Close							
Size (in.)	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar			
				ATA5	ATA7	ATA9	ATA13
8"	A	950	C	102	203		
			O	15	15		
	B	890	C	131	261		
			O	15	15		
	C	800	C	145	261		
			O	15	29		
	D	705	C	160	261		
			O	15	29		
	E	620	C	189	261		
			O	15	44		
	F	545	C	218	261		
			O	29	58		
	G	420	C	261	261		
			O	44	87		

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: 316 SS, Size 10"  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in psi	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 118 psi
T4 trim (Soft Seat)	For T < 203° F - P < 338 psi For T > 203° F but < 400° F - P < 162 psi

Flow to Close - Air to Open																									
Size (in.)	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi		Supply 40 psi		Supply 45 psi		Supply 50 psi		Supply 55 psi		Supply 60 psi		Supply 65 psi		Supply 70 psi		Supply 75 psi					
				2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar					
				ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9		
10"	A	1600	C	116	203	131	203	145	203																
			O	15	44	29	73	29	87																
	B	1450	C	131	203	160	203	174		203		203		203		203		203		203					
			O	15	44	29	87	29		44		58		58		73		87							
	C	1295	C	160	203	174	203	203		203		203		203		203									
			O	15	58	29	87	44		44		58		73		87									
	D	1110	C	174	203	203	203	203		203		203		203											
			O	29	73	44	87	58		73		87		87											
	E	935	C	203	203	203	203	203		203		203													
			O	29	102	58	116	73		102		116													
	F	785	C	203	203	203		203		203															
			O	58	131	87		116		131															
	G	610	C	203	203	203		203		203															
			O	87	189	131		174		189															

Flow to Close - Air to Close							
Size (in.)	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi			
				2.4 bar			
				ATA5	ATA7	ATA9	ATA13
10"	A	1600	C		102	203	
			O		15	29	
	B	1450	C		116	203	
			O		15	29	
	C	1295	C		131	203	
			O		15	44	
	D	1110	C		160	203	
			O		15	44	
	E	935	C		174	203	
			O		29	73	
	F	785	C		203	203	
			O		44	116	
	G	610	C		203	203	
			O		58	174	

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: 316 SS, Size 12"  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in psi	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 118 psi
T4 trim (Soft Seat)	For T < 203° F - P < 1132 psi For T > 203° F but < 400° F - P < 147 psi

Flow to Close - Air to Open																						
Size (in.)	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi		Supply 40 psi		Supply 45 psi		Supply 50 psi		Supply 55 psi		Supply 60 psi		Supply 65 psi		Supply 70 psi		Supply 75 psi		
				2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar		
				ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7
12"	A	2400	C	58	174	73	174	87	174	102	174	102	174	116								
			O		15		29	15	29	15	44	15	44	15								
	B	2140	C	73	174	87	174	102	174	116	174	131		145		160		174		174		
			O		15	15	29	15	29	15	44	15		15		29		29		29		
	C	1810	C	87	174	102	174	116	174	131	174	145		160		174		174		174		
			O		15	15	29	15	44	15	44	15		29		29		29		29		
	D	1520	C	102	174	116	174	131	174	145		160		174		174		174		174		
			O		15	29	15	44	15	44	29		29		29		44		44		44	
	E	1260	C	116	174	131	174	145	174	174		174		174		174		174		174		
			O		15	44	15	58	29	58	29		44		58		58		58			
	F	1035	C	131	174	160	174	174		174		174		174		174		174				
			O		15	58	29	87	44		58		73		87		87					
	G	805	C	160	174	174	174	174		174		174		174								
			O		29	102	58	116	73		102		116		116							

Flow to Close - Air to Close							
Size (in.)	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar			
				ATA5	ATA7	ATA9	ATA13
12"	A	2400	C		58	160	
			O			15	
	B	2140	C		58	174	
			O			15	
	C	1810	C		73	174	
			O			15	
	D	1520	C		87	174	
			O			15	
	E	1260	C		102	174	
			O			15	29
	F	1035	C		116	174	
			O			15	44
	G	805	C		145	174	
			O			29	73

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: 316 SS, Size 16"  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in psi	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 118 psi
T4 trim (Soft Seat)	For T < 203° F - P < 191 psi For T > 203° F but < 400° F - P < 132 psi

Flow to Close - Air to Open																								
Size (in.)	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi		Supply 40 psi		Supply 45 psi		Supply 50 psi		Supply 55 psi		Supply 60 psi		Supply 65 psi		Supply 70 psi		Supply 75 psi				
				2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar				
				ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	
16"	A	4460	C	73	131	87	160	102	174	116	174	131	174	131	174									
			O		15	15	15	15	29	15	29	15	29	15	44	29	44	29						
	B	3975	C	87	160	102	174	116	174	131	174	160	174	174	174	174			174			174		
			O		15	15	15	15	29	15	29	15	44	29	44	29			29			29		
	C	3365	C	102	174	116	174	145	174	160	174	174	174	174			174			174			174	
			O		15	15	15	15	29	15	44	29	44	29			29			44			44	
	D	2825	C	116		131		160		174		174		174		174			174			174		
			O		15		15		15		29		29		44		44			44			44	
	E	2340	C	131		160		174		174		174		174		174			174					
			O		15		29		29		44		44		58		58							
	F	1925	C	160		174		174		174		174		174		174								
			O		29		44		58		73		87		87									
	G	1495	C	174		174		174		174		174		174										
			O		44		58		87		116		116											

Flow to Close - Air to Close							
Size (in.)	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar			
				ATA5	ATA7	ATA9	ATA13
16"	A	4460	C			58	116
			O				
	B	3975	C			87	145
			O				
	C	3365	C			87	160
			O				15
	D	2825	C				
			O			102	
	E	2340	C			116	
			O			15	
	F	1925	C			145	
			O			15	
	G	1495	C			160	
			O			29	

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: Nitronic 50, Size 6"  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in psi	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 176 psi
T4 trim (Soft Seat)	For T < 203° F - P < 500 psi
	For T > 203° F but < 400° F - P < 250 psi

Flow to Close - Air to Open																									
Size (in.)	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi		Supply 40 psi		Supply 45 psi		Supply 50 psi		Supply 55 psi		Supply 60 psi		Supply 65 psi		Supply 70 psi		Supply 75 psi					
				2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar					
				ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7		
6"	A	550	C	276	551	319	609	363	609	421	609	464	609	493											
			O	29	58	44	87	58	116	73	145	87	160	102											
	B	510	C	319	609	377	609	435	609	493	609	551		609		609		609							
			O	29	58	44	102	58	131	87	160	102		116		131		145							
	C	460	C	377	609	435	609	508	609	566	609	609		609		609		609		609					
			O	29	73	58	116	73	145	87	160	116		131		145		160							
	D	405	C	421	609	493	609	566	609	609		609		609		609		609							
			O	44	87	58	131	87	174	116		131		160		174									
	E	355	C	479	609	580	609	609	609	609		609		609											
			O	58	116	87	174	116	203	145		174		203											
	F	315	C	580	609	609	609		609		609		609												
			O	87	160	116	232	160		203		232													
	G	240	C	609	609	609	609		609																
			O	116	232	174	276	232		276															

Flow to Close - Air to Close							
Size (in.)	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar			
				ATA5	ATA7	ATA9	ATA13
6"	A	595	C	247	493		
			O	15	44		
	B	545	C	290	595		
			O	15	44		
	C	500	C	334	609		
			O	29	44		
	D	435	C	377	609		
			O	29	58		
	E	365	C	435	609		
			O	44	87		
	F	290	C	522	609		
			O	58	116		
	G	215	C	609	609		
			O	73	160		

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: Nitronic 50, Size 8"  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in psi	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 118 psi
T4 trim (Soft Seat)	For T < 203° F - P < 294 psi For T > 203° F but < 400° F - P < 206 psi

Flow to Close - Air to Open																						
Size (in.)	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi		Supply 40 psi		Supply 45 psi		Supply 50 psi		Supply 55 psi		Supply 60 psi		Supply 65 psi		Supply 70 psi		Supply 75 psi		
				2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar		
				ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5
8"	A	950	C	116	247	131	276	160	319	174	363	174	377									
			O	15	29	15	44	29	58	29	73	44	87									
	B	890	C	145	290	160	334	189	392	218	421	247	421	261	421	290	421	319	421	334		
			O	15	29	15	44	29	58	44	87	44	102	58	116	58	131	73	131	87		
	C	800	C	160	319	189	392	218	421	247	421	276	421	305	421	334	421	363				
			O	15	29	29	58	29	73	44	102	58	116	58	131	73	131	87				
	D	705	C	174	377	218	421	247	421	276	421	305	421	348	421	377						
			O	15	44	29	73	44	102	58	116	58	145	87	145	87						
	E	620	C	203	421	247	421	290	421	319	421	363	421	406								
			O	29	58	44	102	58	131	73	160	87	174	116								
	F	545	C	247	421	290	421	334	421	377	421	421										
			O	44	87	58	131	87	174	116	203	131										
	G	420	C	290	421	348	421	392	421	421	421	421										
			O	58	131	102	189	131	261	160	261	189										

Flow to Close - Air to Close							
Size (in.)	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar			
				ATA5	ATA7	ATA9	ATA13
8"	A	950	C	102	203		
			O	15	15		
	B	890	C	131	261		
			O	15	15		
	C	800	C	145	290		
			O	15	29		
	D	705	C	160	334		
			O	15	29		
	E	620	C	189	377		
			O	15	44		
	F	545	C	218	421		
			O	29	58		
	G	420	C	261	421		
			O	44	87		

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: Nitronic 50, Size 10"  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in psi	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 118 psi
T4 trim (Soft Seat)	For T < 203° F - P < 338 psi
	For T > 203° F but < 400° F - P < 162 psi

Flow to Close - Air to Open																					
Size (in.)	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi		Supply 40 psi		Supply 45 psi		Supply 50 psi		Supply 55 psi		Supply 60 psi		Supply 65 psi		Supply 70 psi		Supply 75 psi	
				2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
				ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9
A	1600	C	O	116	305	131	334	145	334												
			C	15	44	29	73	29	102												
B	1450	C	O	131	334	160	334	174	334	203	334	232		261		276		305		319	
			C	15	44	29	87	29	102	44	131	58		58		73		87		102	
C	1295	C	O	160	334	174	334	203	334	232	334	261		290		319		334		334	
			C	15	58	29	87	44	116	44	131	58		73		87		102		102	
D	1110	C	O	174	334	203	334	232	334	276		305		334		334		334		334	
			C	29	73	44	116	58	145	73		87		102		116		131		145	
E	935	C	O	203	334	232	334	276	334	305		334		334		334		334			
			C	29	102	58	160	73	174	102		116		131		160		174			
F	785	C	O	247	334	276	334	319		334		334		334		334					
			C	58	160	87	218	116		145		174		203		218					
G	610	C	O	276	334	334	334	334		334		334		334							
			C	87	247	131	290	174		218		261		290							

Flow to Close - Air to Close							
Size (in.)	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar			
				ATA5	ATA7	ATA9	ATA13
A	1600	C	O		102	276	
			C		15	29	
B	1450	C	O		116	334	
			C		15	29	
C	1295	C	O		131	334	
			C		15	44	
D	1110	C	O		160	334	
			C		15	44	
E	935	C	O		174	334	
			C		29	73	
F	785	C	O		218	334	
			C		44	116	
G	610	C	O		247	334	
			C		58	174	

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: Nitronic 50, Size 12"  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in psi	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 118 psi
T4 trim (Soft Seat)	For T < 203° F - P < 113 psi For T > 203° F but < 400° F - P < 147 psi

Flow to Close - Air to Open																								
Size (in.)	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi		Supply 40 psi		Supply 45 psi		Supply 50 psi		Supply 55 psi		Supply 60 psi		Supply 65 psi		Supply 70 psi		Supply 75 psi				
				2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar				
				ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	
12"	A	2400	C	58	174	73	203	87	232	102	261	102	290	116	290									
			O		15		29	15	29	15	44	15	44	15	58									
	B	2140	C	73	203	87	247	102	276	116	290	131	290	145	290	160	290	174			174			
			O		15	15	29	15	29	15	44	15	58	15	58	29	73	29			29			
	C	1810	C	87	232	102	276	116	290	131	290	145	290	160	290	174			189			203		
			O		15	15	29	15	44	15	44	15	58	29	73	29			29			29		
	D	1520	C	102	276	116	290	131	290	145	290	160	290	189			203			218			247	
			O		15	29	15	44	15	58	29	73	29	87	29			44			44			44
	E	1260	C	116	290	131	290	145	290	174	290	189	290	218			232			261			276	
			O		15	44	15	58	29	87	29	102	44	116	58			58			73			73
	F	1035	C	131	290	160	290	174	290	203	290	232					261			276			290	
			O		15	58	29	102	44	131	58	145	73					87			102			116
	G	805	C	160	290	189	290	218	290	247							290			290			290	
			O		29	102	58	160	73	203	102						116			131			160	

Flow to Close - Air to Close							
Size (in.)	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar			
				ATA5	ATA7	ATA9	ATA13
12"	A	2400	C		58	160	
			O			15	
	B	2140	C		58	189	
			O			15	
	C	1810	C		73	203	
			O			15	
	D	1520	C		87	247	
			O			15	
	E	1260	C		102	276	
			O			15	29
	F	1035	C		116	290	
			O			15	44
	G	805	C		145	290	
			O			29	73

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN



Shaft: Nitronic 50, Size 16"  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in psi	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 118 psi
T4 trim (Soft Seat)	For T < 203° F - P < 191 psi For T > 203° F but < 400° F - P < 132 psi

Flow to Close - Air to Open																							
Size (in.)	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi		Supply 40 psi		Supply 45 psi		Supply 50 psi		Supply 55 psi		Supply 60 psi		Supply 65 psi		Supply 70 psi		Supply 75 psi			
				2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar			
				ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13
16"	A	4460	C	73	131	87	160	102	174	116	203	131	232	131	232								
			O		15	15	15	15	29	15	29	15	29	15	44								
	B	3975	C	87	160	102	189	116	218	131	232	160	232	174	232	189	232	203	232	218	232		
			O		15	15	15	15	29	15	29	15	44	29	44	29	58	29	58	29	58	29	58
	C	3365	C	102	189	116	218	145	232	160	232	174	232	189	232	218	232	232	232	232	232		
			O		15	15	15	15	29	15	44	29	44	29	58	29	58	44	58	44	58	44	
	D	2825	C	116		131		160		174		203		218		232		232		232		232	
			O		15		15		15		29		29		44		44		44		44		58
	E	2340	C	131		160		174		203		232		232		232		232		232		232	
			O		15		29		29		44		44		58		73		87		87		87
	F	1925	C	160		189		218		232		232		232		232		232		232		232	
			O		29		44		58		73		87		102		116		131		145		145
	G	1495	C	189		218		232		232		232		232		232		232		232		232	
			O		44		58		87		116		131		160		174		189				

Flow to Close - Air to Close							
Size (in.)	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar			
				ATA5	ATA7	ATA9	ATA13
16"	A	4460	C			58	116
			O				
	B	3975	C			87	145
			O				
	C	3365	C			87	160
			O				15
	D	2825	C			102	
			O				
	E	2340	C			116	
			O				15
	F	1925	C			145	
			O				15
	G	1495	C			160	
			O				29

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

# US Units Lo-dB Trim

Allowable Pressure  
Drop Tables

30000 Series Varimax

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## US Units

Trim	Shaft Material	Size	Flow	Page	
Lo-dB Trim	17-4PH Shaft	6" & 8"	FTO	36	
		10" & 12"	FTO	37	
		16"	FTO	38	
	316 SS Shaft	6" & 8"	FTO	39	
		10" & 12"	FTO	40	
		16"	FTO	41	
	Nitronic 50 Shaft	6" & 8"	FTO	42	
		10" & 12"	FTO	43	
		16"	FTO	44	
		<b>Shaft Material</b>	<b>Size</b>	<b>Flow</b>	<b>Page</b>
	17-4PH Shaft	6" & 8"	FTC	45	
		10" & 12"	FTC	46	
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	316 SS Shaft	6" & 8"	FTC	48	
		10" & 12"	FTC	49	
		16"	FTC	50	
	Nitronic 50 Shaft	6" & 8"	FTC	51	
		10" & 12"	FTC	52	
		16"	FTC	53	

Shaft: 17-4PH, Size 6" and 8" Lo dB Valves  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in psi	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 174 psi
T4 trim (Soft Seat)	For T < 203° F - P < 493 psi
	For T > 203° F but < 400° F - P < 247 psi

Flow to Open - Air to Close																						
Size (in.)	ATA Adjust	C <sub>v</sub>		Position	Supply		Supply		Supply		Supply		Supply		Supply		Supply		Supply			
		Std. Cap.	High Cap.		35 psi		40 psi		45 psi		50 psi		55 psi		60 psi		65 psi		70 psi		75 psi	
					2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
					ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7
6"	A	210	260	C	58	174	116	261	160	363	203	464	261	566	305	667	348	754	406		450	
				O	58	174	116	261	160	363	203	464	261	566	305	667	348	754	406		450	
	B	190	220	C	87	203	145	319	203	435	261	566	319	682	377	754	435		493		551	
				O	87	203	145	319	203	435	261	566	319	682	377	754	435		493		551	
	C	170	185	C	102	247	174	377	232	508	305	653	377	754	435		508		566		638	
				O	102	247	174	377	232	508	305	653	377	754	435		508		566		638	
	D	145	145	C	116	276	189	435	276	580	348	740	421	754	493		566		653		725	
				O	116	276	189	435	276	580	348	740	421	754	493		566		653		725	
	E	125	125	C	145	319	232	508	319	682	406	754	493		580		667		754			
				O	145	319	232	508	319	682	406	754	493		580		667		754			
	F	105	105	C	174	392	276	595	377	754	479		595		696		754					
				O	174	392	276	595	377	754	479		595		696		754					
	G	85	85	C	203	464	334	711	450	754	580		696		754							
				O	203	464	334	711	450	754	580		696		754							

Maximum Pressure Drop in psi	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 116 psi
T4 trim (Soft Seat)	For T < 203° F - P < 392 psi
	For T > 203° F but < 400° F - P < 203 psi

Flow to Open - Air to Close																						
Size (in.)	ATA Adjust	C <sub>v</sub>		Position	Supply		Supply		Supply		Supply		Supply		Supply		Supply		Supply			
		Std. Cap.	High Cap.		35 psi		40 psi		45 psi		50 psi		55 psi		60 psi		65 psi		70 psi		75 psi	
					2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
					ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7
8"	A	360	435	C	15	58	44	102	58	145	87	189	102	232	116	276	145	319	160	363	189	406
				O	15	58	44	102	58	145	87	189	102	232	116	276	145	319	160	363	189	406
	B	325	370	C	29	87	44	131	73	174	102	232	131	290	145	334	174	392	203	435	232	479
				O	29	87	44	131	73	174	102	232	131	290	145	334	174	392	203	435	232	479
	C	290	310	C	29	102	58	145	87	203	116	276	145	334	174	392	203	450	232	508	261	566
				O	29	102	58	145	87	203	116	276	145	334	174	392	203	450	232	508	261	566
	D	250	250	C	44	116	73	174	102	247	145	305	174	377	203	435	232	508	276	580	305	595
				O	44	116	73	174	102	247	145	305	174	377	203	435	232	508	276	580	305	595
	E	215	215	C	44	131	87	203	131	276	160	363	203	435	247	508	276	595	319	595	348	
				O	44	131	87	203	131	276	160	363	203	435	247	508	276	595	319	595	348	
	F	180	180	C	58	160	116	247	160	334	203	435	247	522	290	595	334		377		421	
				O	58	160	116	247	160	334	203	435	247	522	290	595	334		377		421	
	G	145	145	C	87	189	131	290	189	406	247	508	290	595	348		392		450		508	
				O	87	189	131	290	189	406	247	508	290	595	348		392		450		508	

C : Closed O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: 17-4PH, Size 10" and 12", Lo dB Valves  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in psi	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 116 psi
T4 trim (Soft Seat)	For T < 203° F - P < 334 psi
	For T > 203° F but < 400° F - P < 160 psi

Flow to Open - Air to Close																						
Size (in.)	ATA Adjust	C <sub>v</sub>		Position	Supply		Supply		Supply		Supply		Supply		Supply		Supply		Supply			
		Std. Cap.	High Cap.		35 psi		40 psi		45 psi		50 psi		55 psi		60 psi		65 psi		70 psi		75 psi	
					2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
					ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9
10"	A	620	745	C	15	87	44	145	58	203	87	261	102	319	116	377	145	421	160	450	189	
				O	15	87	44	145	58	203	87	261	102	319	116	377	145	421	160	450	189	
	B	560	645	C	29	116	58	174	73	247	102	305	131	377	145	450	174	450	203		218	
				O	29	116	58	174	73	247	102	305	131	377	145	450	174	450	203		218	
	C	495	535	C	29	131	58	203	87	290	116	363	145	435	174	450	203		232		261	
				O	29	131	58	203	87	290	116	363	145	435	174	450	203		232		261	
	D	435	435	C	44	160	73	247	102	319	145	406	174	450	203		232		261		290	
				O	44	160	73	247	102	319	145	406	174	450	203		232		261		290	
	E	370	370	C	58	174	87	276	131	377	160	450	189		232		276		305		334	
				O	58	174	87	276	131	377	160	450	189		232		276		305		334	
	F	310	310	C	58	218	116	334	145	450	189		247		276		319		377		406	
				O	58	218	116	334	160	450	189		247		276		319		377		406	
	G	250	250	C	87	261	131	392	189	450	232		290		334		392		435		450	
				O	87	261	131	392	189	450	232		290		334		392		435		450	

Maximum Pressure Drop in psi	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 116 psi
T4 trim (Soft Seat)	For T < 203° F - P < 276 psi
	For T > 203° F but < 400° F - P < 145 psi

Flow to Open - Air to Close																						
Size (in.)	ATA Adjust	C <sub>v</sub>		Position	Supply		Supply		Supply		Supply		Supply		Supply		Supply		Supply			
		Std. Cap.	High Cap.		35 psi		40 psi		45 psi		50 psi		55 psi		60 psi		65 psi		70 psi		75 psi	
					2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
					ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9
12"	A	1000	1200	C		44	15	73	29	116	44	145	44	174	58	203	73	232	87	261	102	290
				O		44	15	73	29	116	44	145	44	174	58	203	73	232	87	261	102	290
	B	900	1035	C	15	58	29	102	29	131	44	174	58	203	87	247	87	276	102	305	116	
				O	15	58	29	102	29	131	44	174	58	203	87	247	87	276	102	305	116	
	C	800	865	C	15	73	29	116	44	160	58	189	73	247	87	276	102	305	131		145	
				O	15	73	29	116	44	160	58	189	73	247	87	276	102	305	131		145	
	D	700	700	C	15	87	29	131	58	174	73	232	87	276	102	305	131		145		160	
				O	15	87	29	131	58	174	73	232	87	276	102	305	131		145		160	
	E	600	600	C	29	102	44	145	58	203	87	261	102	305	131		145		160		189	
				O	29	102	44	145	58	203	87	261	102	305	131		145		160		189	
	F	500	500	C	29	116	58	174	87	247	102	305	131		145		174		203		232	
				O	29	116	58	174	87	247	102	305	131		145		174		203		232	
	G	400	400	C	44	145	73	218	102	290	131	305	160		174		203		247		261	
				O	44	145	73	218	102	290	131	305	160		174		203		247		261	

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: 17-4PH, Size 16", Lo dB Valves

Seat: Metal Seat and Soft Seat ( T1 through T4 trims)

Seat Leakage: Class IV and Class VI

Range: 7-25 psi

Maximum Pressure Drop in psi	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 116 psi
T4 trim (Soft Seat)	For T < 203° F - P < 189 psi
	For T > 203° F but < 400° F - P < 131 psi

Flow to Open - Air to Close																						
Size (in.)	ATA Adjust	C <sub>v</sub>		Position	Supply		Supply Pressure		Supply		Supply		Supply		Supply		Supply		Supply Pressure			
		Std. Cap.	High Cap.		35 psi		40 psi		45 psi		50 psi		55 psi		60 psi		65 psi		70 psi		75 psi	
					2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
		ATA9	ATA13		ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13
16"	A	1750	2100	C	15	29	29	58	44	87	58	102	73	131	87	160	102	174	116	203	116	232
				O	15	29	29	58	44	87	58	102	73	131	87	160	102	174	116	203	116	232
	B	1575	1810	C	15	44	29	73	44	102	58	131	87	160	102	189	116	218	131	232	145	
				O	15	44	29	73	44	102	58	131	87	160	102	189	116	218	131	232	145	
	C	1400	1510	C	29	58	44	87	58	116	87	160	102	189	116	232	131	232	160		174	
				O	29	58	44	87	58	116	87	160	102	189	116	232	131	232	160		174	
	D	1225	1225	C	29		44		73		87		116		131		160		174		189	
				O	29		44		73		87		116		131		160		174		189	
	E	1050	1050	C	29		58		87		102		131		160		174		203		232	
				O	29		58		87		102		131		160		174		203		232	
	F	875	875	C	44		73		102		131		160		189		218		232			
				O	44		73		102		131		160		189		218		232			
	G	700	700	C	58		87		116		160		189		232		232					
				O	58		87		116		160		189		232		232					

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

Shaft: 316 SS, Size 6" and 8", Lo dB Valves  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in psi	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 174 psi
T4 trim (Soft Seat)	For T < 203° F - P < 493 psi
	For T > 203° F but < 400° F - P < 247 psi

Flow to Open - Air to Close																						
Size (in.)	ATA Adjust	C <sub>v</sub>		Position	Supply		Supply		Supply		Supply		Supply		Supply		Supply		Supply			
		Std. Cap.	High Cap.		35 psi		40 psi		45 psi		50 psi		55 psi		60 psi		65 psi		70 psi		75 psi	
					2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
					ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7
6"	A	210	260	C	58	174	116	261	160	334	203		261		305		334					
				O	58	174	116	261	160	334	203		261		305		334					
	B	190	220	C	87	203	145	319	203	334	261		319		334							
				O	87	203	145	319	203	334	261		319		334							
	C	170	185	C	102	247	174	334	232		305		334									
				O	102	247	174	334	232		305		334									
	D	145	145	C	116	276	189	334	276		334											
				O	116	276	189	334	276		334											
	E	125	125	C	145	319	232	334	319		334											
				O	145	319	232	334	319		334											
	F	105	105	C	174	334	276		334													
				O	174	334	276		334													
	G	85	85	C	203	334	334		334													
				O	203	334	334		334													

Maximum Pressure Drop in psi	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 116 psi
T4 trim (Soft Seat)	For T < 203° F - P < 392 psi
	For T > 203° F but < 400° F - P < 203 psi

Flow to Open - Air to Close																						
Size (in.)	ATA Adjust	C <sub>v</sub>		Position	Supply		Supply		Supply		Supply		Supply		Supply		Supply		Supply			
		Std. Cap.	High Cap.		35 psi		40 psi		45 psi		50 psi		55 psi		60 psi		65 psi		70 psi		75 psi	
					2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
					ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7
8"	A	360	435	C	15	58	44	102	58	145	87	189	102	232	116	232	145		160		189	
				O	15	58	44	102	58	145	87	189	102	232	116	232	145		160		189	
	B	325	370	C	29	87	44	131	73	174	102	232	131	232	145		174		203		232	
				O	29	87	44	131	73	174	102	232	131	232	145		174		203		232	
	C	290	310	C	29	102	58	145	87	203	116	232	145		174		203		232		232	
				O	29	102	58	145	87	203	116	232	145		174		203		232		232	
	D	250	250	C	44	116	73	174	102	232	145		174		203		232					
				O	44	116	73	174	102	232	145		174		203		232					
	E	215	215	C	44	131	87	203	131	232	160		203		232							
				O	44	131	87	203	131	232	160		203		232							
	F	180	180	C	58	160	116	232	160		203		232									
				O	58	160	116	232	160		203		232									
	G	145	145	C	87	189	131	232	189		232											
				O	87	189	131	232	189		232											

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: 316 SS, Size 10" and 12", Lo dB Valves

Seat: Metal Seat and Soft Seat ( T1 through T4 trims)

Seat Leakage: Class IV and Class VI

Range: 7-25 psi

Maximum Pressure Drop in psi	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 116 psi
T4 trim (Soft Seat)	For T < 203° F - P < 334 psi
	For T > 203° F but < 400° F - P < 160 psi

Flow to Open - Air to Close																						
Size (in.)	ATA Adjust	C <sub>v</sub>		Position	Supply		Supply		Supply		Supply		Supply		Supply		Supply		Supply			
		Std. Cap.	High Cap.		35 psi		40 psi		45 psi		50 psi		55 psi		60 psi		65 psi		70 psi		75 psi	
					2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
					ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9
10"	A	620	745	C	15	87	44	145	58	189	87		102		116		145		160		189	
				O	15	87	44	145	58	189	87		102		116		145		160		189	
	B	560	645	C	29	116	58	174	73	189	102		131		145		174		189			
				O	29	116	58	174	73	189	102		131		145		174		189			
	C	495	535	C	29	131	58	189	87		116		145		174		189					
				O	29	131	58	189	87		116		145		174		189					
	D	435	435	C	44	160	73	189	102		145		174		189							
				O	44	160	73	189	102		145		174		189							
	E	370	370	C	58	174	87	189	131		160		189									
				O	58	174	87	189	131		160		189									
	F	310	310	C	58	189	116		145		189											
				O	58	189	116		145		189											
	G	250	250	C	87	189	131		189		189											
				O	87	189	131		189		189											

Maximum Pressure Drop in psi	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 116 psi
T4 trim (Soft Seat)	For T < 203° F - P < 276 psi
	For T > 203° F but < 400° F - P < 145 psi

Flow to Open - Air to Close																						
Size (in.)	ATA Adjust	C <sub>v</sub>		Position	Supply		Supply		Supply		Supply		Supply		Supply		Supply		Supply			
		Std. Cap.	High Cap.		35 psi		40 psi		45 psi		50 psi		55 psi		60 psi		65 psi		70 psi		75 psi	
					2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
					ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9
12"	A	1000	1200	C		44	15	73	29	116	44	145	44	160	58		73		87		102	
				O		44	15	73	29	116	44	145	44	160	58		73		87		102	
	B	900	1035	C	15	58	29	102	29	131	44	160	58		87		87		102		116	
				O	15	58	29	102	29	131	44	160	58		87		87		102		116	
	C	800	865	C	15	73	29	116	44	160	58	160	73		87		102		131		145	
				O	15	73	29	116	44	160	58	160	73		87		102		131		145	
	D	700	700	C	15	87	29	131	58	160	73		87		102		131		145		160	
				O	15	87	29	131	58	160	73		87		102		131		145		160	
	E	600	600	C	29	102	44	145	58	160	87		102		131		145		160			
				O	29	102	44	145	58	160	87		102		131		145		160			
	F	500	500	C	29	116	58	160	87		102		131		145		160					
				O	29	116	58	160	87		102		131		145		160					
	G	400	400	C	44	145	73	160	102		131		160		160							
				O	44	145	73	160	102		131		160		160							

C : Closed O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN



Shaft: 316 SS, Size 16", Lo dB Valves

Seat: Metal Seat and Soft Seat ( T1 through T4 trims)

Seat Leakage: Class IV and Class VI

Range: 7-25 psi

Maximum Pressure Drop in psi	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 116 psi
T4 trim (Soft Seat)	For T < 203° F - P < 189 psi
	For T > 203° F but < 400° F - P < 131 psi

Flow to Open - Air to Close																						
Size (in.)	ATA Adjust	C <sub>v</sub>		Position	Supply		Supply		Supply		Supply		Supply		Supply		Supply		Supply			
		Std. Cap.	High Cap.		35 psi		40 psi		45 psi		50 psi		55 psi		60 psi		65 psi		70 psi		75 psi	
					2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
					ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13
16"	A	1750	2100	C	15	29	29	58	44	87	58	102	73	131	87	160	102	160	116		116	
				O	15	29	29	58	44	87	58	102	73	131	87	160	102	160	116		116	
	B	1575	1810	C	15	44	29	73	44	102	58	131	87	160	102	160	116		131		145	
				O	15	44	29	73	44	102	58	131	87	160	102	160	116		131		145	
	C	1400	1510	C	29	58	44	87	58	116	87	160	102	160	116		131		160		160	
				O	29	58	44	87	58	116	87	160	102	160	116		131		160		160	
	D	1225	1225	C	29		44		73		87		116		131		160		160			
				O	29		44		73		87		116		131		160		160			
	E	1050	1050	C	29		58		87		102		131		160		160					
				O	29		58		87		102		131		160		160					
	F	875	875	C	44		73		102		131		160									
				O	44		73		102		131		160									
	G	700	700	C	58		87		116		160		160									
				O	58		87		116		160		160									

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

Shaft: Nitronic 50, Size 6" and 8", Lo dB Valves  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in psi																					
For the T1 and T4 trim, the maximum values must be limited to:																					
T1 trim (Stainless St. / Stainless St.)												P < 174 psi									
T4 trim (Soft Seat)												For T < 203° F - P < 493 psi									
												For T > 203° F but < 400° F - P < 247 psi									

Flow to Open - Air to Close																						
Size (in.)	ATA Adjust	C <sub>v</sub>		Position	Supply		Supply		Supply		Supply		Supply		Supply		Supply		Supply			
		Std. Cap.	High Cap.		35 psi		40 psi		45 psi		50 psi		55 psi		60 psi		65 psi		70 psi		75 psi	
					2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
					ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7
6"	A	210	260	C	58	174	116	261	160	363	203	464	261	566	305	566	348		406		450	
				O	58	174	116	261	160	363	203	464	261	566	305	566	348		406		450	
	B	190	220	C	87	203	145	319	203	435	261	566	319	566	377		435		493		551	
				O	87	203	145	319	203	435	261	566	319	566	377		435		493		551	
	C	170	185	C	102	247	174	377	232	508	305	566	377		435		508		566		566	
				O	102	247	174	377	232	508	305	566	377		435		508		566		566	
	D	145	145	C	116	276	189	435	276	566	348		421		493		566					
				O	116	276	189	435	276	566	348		421		493		566					
	E	125	125	C	145	319	232	508	319	566	406		493		566							
				O	145	319	232	508	319	566	406		493		566							
	F	105	105	C	174	392	276	566	377		479		566									
				O	174	392	276	566	377		479		566									
	G	85	85	C	203	464	334	566	450		566											
				O	203	464	334	566	450		566											

Maximum Pressure Drop in psi																					
For the T1 and T4 trim, the maximum values must be limited to:																					
T1 trim (Stainless St. / Stainless St.)												P < 116 psi									
T4 trim (Soft Seat)												For T < 203° F - P < 392 psi									
												For T > 203° F but < 400° F - P < 203 psi									

Flow to Open - Air to Close																						
Size (in.)	ATA Adjust	C <sub>v</sub>		Position	Supply		Supply		Supply		Supply		Supply		Supply		Supply		Supply			
		Std. Cap.	High Cap.		35 psi		40 psi		45 psi		50 psi		55 psi		60 psi		65 psi		70 psi		75 psi	
					2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
					ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7
8"	A	360	435	C	15	58	44	102	58	145	87	189	102	232	116	276	145	319	160	363	189	421
				O	15	58	44	102	58	145	87	189	102	232	116	276	145	319	160	363	189	421
	B	325	370	C	29	87	44	131	73	174	102	232	131	290	145	334	174	392	203	406	232	
				O	29	87	44	131	73	174	102	232	131	290	145	334	174	392	203	406	232	
	C	290	310	C	29	102	58	145	87	203	116	276	145	334	174	392	203	406	232		261	
				O	29	102	58	145	87	203	116	276	145	334	174	392	203	406	232		261	
	D	250	250	C	44	116	73	174	102	247	145	305	174	377	203	406	232		276		305	
				O	44	116	73	174	102	247	145	305	174	377	203	406	232		276		305	
	E	215	215	C	44	131	87	203	131	276	160	363	203	406	247		276		319		348	
				O	44	131	87	203	131	276	160	363	203	406	247		276		319		348	
	F	180	180	C	58	160	116	247	160	334	203	406	247		290		334		377		406	
				O	58	160	116	247	160	334	203	406	247		290		334		377		406	
	G	145	145	C	87	189	131	290	189	406	247		290		348		392		406			
				O	87	189	131	290	189	406	247		290		348		392		406			

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: Nitronic 50, Size 10" and 12", Lo dB Valves  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in psi	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 116 psi
T4 trim (Soft Seat)	For T < 203° F - P < 334 psi
	For T > 203° F but < 400° F - P < 160 psi

Flow to Open - Air to Close																						
Size (in.)	ATA Adjust	C <sub>v</sub>		Position	Supply		Supply		Supply		Supply		Supply		Supply		Supply		Supply			
		Std. Cap.	High Cap.		35 psi		40 psi		45 psi		50 psi		55 psi		60 psi		65 psi		70 psi		75 psi	
					2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
					ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9
10"	A	620	745	C	15	87	44	145	58	203	87	261	102	305	116		145		160		189	
				O	15	87	44	145	58	203	87	261	102	305	116		145		160		189	
	B	560	645	C	29	116	58	174	73	247	102	305	131	305	145		174		203		218	
				O	29	116	58	174	73	247	102	305	131	305	145		174		203		218	
	C	495	535	C	29	131	58	203	87	290	116	305	145		174		203		232		261	
				O	29	131	58	203	87	290	116	305	145		174		203		232		261	
	D	435	435	C	44	160	73	247	102	305	145		174		203		232		261		290	
				O	44	160	73	247	1146	305	145		174		203		232		261		290	
	E	370	370	C	58	174	87	276	131	305	160		189		232		276		305		305	
				O	58	174	87	276	131	305	160		189		232		276		305		305	
	F	310	310	C	58	218	116	305	145		189		247		276		305					
				O	58	218	116	305	145		189		247		276		305					
	G	250	250	C	87	261	131	305	189		232		290		305							
				O	87	261	131	305	189		232		290		305							

Maximum Pressure Drop in psi	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 116 psi
T4 trim (Soft Seat)	For T < 203° F - P < 276 psi
	For T > 203° F but < 400° F - P < 145 psi

Flow to Open - Air to Close																						
Size (in.)	ATA Adjust	C <sub>v</sub>		Position	Supply		Supply		Supply		Supply		Supply		Supply		Supply		Supply			
		Std. Cap.	High Cap.		35 psi		40 psi		45 psi		50 psi		55 psi		60 psi		65 psi		70 psi		75 psi	
					2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
					ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9
12"	A	1000	1200	C		44	15	73	29	116	44	145	44	174	58	203	73	232	87	261	102	276
				O		44	15	73	29	116	44	145	44	174	58	203	73	232	87	261	102	276
	B	900	1035	C	15	58	29	102	29	131	44	174	58	203	87	247	87	276	102		116	
				O	15	58	29	102	29	131	44	174	58	203	87	247	87	276	102		116	
	C	800	865	C	15	73	29	116	44	160	58	189	73	247	87	276	102		131		145	
				O	15	73	29	116	44	160	58	189	73	247	87	276	102		131		145	
	D	700	700	C	15	87	29	131	58	174	73	232	87	276	102		131		145		160	
				O	15	87	29	131	58	174	73	232	87	276	102		131		145		160	
	E	600	600	C	29	102	44	145	58	203	87	261	102	276	131		145		160		189	
				O	29	102	44	145	58	203	87	261	102	276	131		145		160		189	
	F	500	500	C	29	116	58	174	87	247	102	276	131		145		174		203		232	
				O	29	116	58	174	87	247	102	276	131		145		174		203		232	
	G	400	400	C	44	145	73	218	102	276	131		160		174		203		247		261	
				O	44	145	73	218	102	276	131		160		174		203		247		261	

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: Nitronic 50, Size 16", Lo dB Valves

Seat: Metal Seat and Soft Seat ( T1 through T4 trims)

Seat Leakage: Class IV and Class VI

Range: 7-25 psi

Maximum Pressure Drop in psi	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 116 psi
T4 trim (Soft Seat)	For T < 203° F - P < 189 psi
	For T > 203° F but < 400° F - P < 131 psi

Flow to Open - Air to Close																						
Size (in.)	ATA Adjust	C <sub>v</sub>		Position	Supply		Supply		Supply		Supply		Supply		Supply		Supply		Supply			
		Std. Cap.	High Cap.		35 psi		40 psi		45 psi		50 psi		55 psi		60 psi		65 psi		70 psi		75 psi	
					2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
		ATA9	ATA13		ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13
16"	A	1750	2100	C	15	29	29	58	44	87	58	102	73	131	87	160	102	174	116	203	116	232
				O	15	29	29	58	44	87	58	102	73	131	87	160	102	174	116	203	116	232
	B	1575	1810	C	15	44	29	73	44	102	58	131	87	160	102	189	116	218	131	232	145	
				O	15	44	29	73	44	102	58	131	87	160	102	189	116	218	131	232	145	
	C	1400	1510	C	29	58	44	87	58	116	87	160	102	189	116	232	131	232	160		174	
				O	29	58	44	87	58	116	87	160	102	189	116	232	131	232	160		174	
	D	1225	1225	C	29		44		73		87		116		131		160		174		189	
				O	29		44		73		87		116		131		160		174		189	
	E	1050	1050	C	29		58		87		102		131		160		174		203		232	
				O	29		58		87		102		131		160		174		203		232	
	F	875	875	C	44		73		102		131		160		189		218		232			
				O	44		73		102		131		160		189		218		232			
	G	700	700	C	58		87		116		160		189		232		232					
				O	58		87		116		160		189		232		232					

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

Shaft: 17-4PH, Size 6" and 8" Lo dB Valves  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in psi	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 174 psi
T4 trim (Soft Seat)	For T < 203° F - P < 493 psi
	For T > 203° F but < 400° F - P < 247 psi

Flow to Close - Air to Open																						
Size (in.)	ATA Adjust	C <sub>v</sub>		Position	Supply		Supply		Supply		Supply		Supply		Supply		Supply		Supply			
		Std. Cap.	High Cap.		35 psi		40 psi		45 psi		50 psi		55 psi		60 psi		65 psi		70 psi		75 psi	
					2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
					ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7
6"	A	210	260	C	276	551	319	653	363	754	421	754	464	754	508	754	566	754	609		653	
				O	102	189	145	290	189	392	247	493	290	595	334	696	392	754	435		479	
	B	190	220	C	319	667	377	754	435	754	493	754	551	754	609	754	667		725		754	
				O	116	232	174	348	232	464	290	595	348	711	406	754	464		522		580	
	C	170	185	C	377	754	435	754	508	754	566	754	638	754	711		754		754		754	
				O	131	276	203	406	261	537	334	682	406	754	464		537		595		667	
	D	145	145	C	421	754	493	754	566	754	653	754	725		754		754		754		754	
				O	145	305	232	464	305	609	377	754	450		522		595		682		754	
	E	125	125	C	479	754	580	754	667	754	754	754	754		754		754		754			
				O	174	348	261	537	348	711	435		522		609		696		754			
	F	105	105	C	580	754	682	754	754	754	754	754		754		754						
				O	203	421	305	624	406	754	522		609		725		754					
	G	85	85	C	682	754	754	754	754	754	754		754		754							
				O	247	493	363	740	479	754	609		725		754							

Maximum Pressure Drop in psi	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 116 psi
T4 trim (Soft Seat)	For T < 203° F - P < 392 psi
	For T > 203° F but < 400° F - P < 203 psi

Flow to Close - Air to Open																						
Size (in.)	ATA Adjust	C <sub>v</sub>		Position	Supply		Supply		Supply		Supply		Supply		Supply		Supply		Supply			
		Std. Cap.	High Cap.		35 psi		40 psi		45 psi		50 psi		55 psi		60 psi		65 psi		70 psi		75 psi	
					2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
					ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7
8"	A	360	435	C	116	247	131	276	160	319	174	363	203	406	218	450	247	493	261	537	276	580
				O	44	87	58	131	87	174	102	203	131	261	145	305	160	334	189	392	203	421
	B	325	370	C	145	290	160	334	189	392	218	435	247	493	261	537	290	595	319	595	334	595
				O	44	102	73	145	102	203	131	261	145	305	174	348	203	406	232	464	247	508
	C	290	310	C	160	319	189	392	218	450	247	508	276	566	305	595	334	595	363	595	392	595
				O	58	116	87	174	116	232	145	290	174	348	203	406	232	464	261	522	290	580
	D	250	250	C	174	377	218	435	247	508	276	566	305	595	348	595	377	595	406	595	435	595
				O	58	131	102	189	131	261	160	334	189	392	232	464	261	537	290	595	319	595
	E	215	215	C	203	421	247	508	290	580	319	595	363	595	406	595	435	595	479		508	
				O	73	145	116	232	145	305	189	377	232	450	261	537	305	595	334		377	
	F	180	180	C	247	508	290	595	334	595	377	595	421	595	464	595	522		566		595	
				O	87	174	131	276	174	363	218	450	261	551	305	595	348		406		450	
	G	145	145	C	290	595	348	595	392	595	450	595	508	595	551		595		595		595	
				O	102	203	160	319	203	421	261	537	319	595	363		421		464		522	

C : Closed O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: 17-4PH, Size 10" and 12" Lo dB Valves

Seat: Metal Seat and Soft Seat ( T1 through T4 trims)

Seat Leakage: Class IV and Class VI

Range: 7-25 psi

Maximum Pressure Drop in psi	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 116 psi
T4 trim (Soft Seat)	For T < 203° F - P < 334 psi
	For T > 203° F but < 400° F - P < 160 psi

Flow to Close - Air to Open																						
Size (in.)	ATA Adjust	C <sub>v</sub>		Position	Supply		Supply		Supply		Supply		Supply		Supply		Supply		Supply			
		Std. Cap.	High Cap.		35 psi		40 psi		45 psi		50 psi		55 psi		60 psi		65 psi		70 psi		75 psi	
					2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
					ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9
10"	A	620	745	C	116	305	131	363	145	421	174	450	189	450	218	450	232	450	261	450	276	
				O	44	116	58	160	87	218	102	276	116	334	145	392	160	450	174	450	203	
	B	560	645	C	131	377	160	435	174	450	203	450	232	450	261	450	276		305		319	
				O	44	131	73	189	102	261	116	334	145	392	160	450	189		218		247	
	C	495	535	C	160	421	174	450	203	450	232	450	261	450	290		319		348		377	
				O	58	145	87	232	116	305	131	377	160	450	189		218		247		276	
	D	435	435	C	174	450	203	450	232	450	276	450	305	450	334		363		392		421	
				O	58	174	87	261	131	348	160	435	189	450	218		247		276		319	
	E	370	370	C	203	450	232	450	276	450	305	450	348		377		421		450		450	
				O	73	189	102	290	145	392	174	450	218		247		290		319		363	
	F	310	310	C	247	450	276	450	319	450	377		406		450		450		450		450	
				O	87	232	131	348	174	450	218		261		305		334		392		435	
	G	250	250	C	276	450	334	450	392	450	435		450		450		450		450			
				O	102	276	145	421	203	450	247		305		348		406		450			

Maximum Pressure Drop in psi	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 116 psi
T4 trim (Soft Seat)	For T < 203° F - P < 276 psi
	For T > 203° F but < 400° F - P < 145 psi

Flow to Close - Air to Open																						
Size (in.)	ATA Adjust	C <sub>v</sub>		Position	Supply		Supply		Supply		Supply		Supply		Supply		Supply		Supply			
		Std. Cap.	High Cap.		35 psi		40 psi		45 psi		50 psi		55 psi		60 psi		65 psi		70 psi		75 psi	
					2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
					ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9
12"	A	1000	1200	C	58	174	73	203	87	232	102	261	102	305	116	305	131	305	145	305	145	305
				O	15	58	29	87	44	131	58	160	58	189	73	218	87	247	102	276	116	305
	B	900	1035	C	73	203	87	247	102	276	116	305	131	305	145	305	160	305	174	305	174	
				O	29	73	44	116	44	145	58	189	87	218	102	261	102	290	116	305	131	
	C	800	865	C	87	232	102	276	116	305	131	305	145	305	160	305	174	305	189		203	
				O	29	87	44	131	58	174	73	203	87	261	102	290	116	305	145		160	
	D	700	700	C	102	276	116	305	131	305	145	305	160	305	189	305	203		218		247	
				O	29	102	44	145	73	189	87	247	102	290	116	305	145		160		174	
	E	600	600	C	116	305	131	305	145	305	174	305	189	305	218		232		261		276	
				O	44	116	58	160	87	218	102	276	116	305	145		160		174		203	
	F	500	500	C	131	305	160	305	174	305	203	305	232		261		276		305		305	
				O	44	131	73	189	102	261	116	305	145		160		189		218		247	
	G	400	400	C	160	305	189	305	218	305	247		276		305		305		305		305	
				O	58	160	87	232	116	305	145		174		189		232		261		276	

C : Closed O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: 17-4PH, Size 16", Lo dB Valves

Seat: Metal Seat and Soft Seat ( T1 through T4 trims)

Seat Leakage: Class IV and Class VI

Range: 7-25 psi

Maximum Pressure Drop in psi	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 116 psi
T4 trim (Soft Seat)	For T < 203° F - P < 189 psi
	For T > 203° F but < 400° F - P < 131 psi

Flow to Close - Air to Open																						
Size (in.)	ATA Adjust	C <sub>v</sub>		Position	Supply		Supply		Supply		Supply		Supply		Supply		Supply		Supply			
		Std. Cap.	High Cap.		35 psi		40 psi		45 psi		50 psi		55 psi		60 psi		65 psi		70 psi		75 psi	
					2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
		ATA9	ATA13		ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13
16"	A	1750	2100	C	73	131	87	160	102	174	116	203	131	232	145	232	160	232	174	232	174	232
				O	29	44	44	73	44	102	58	116	87	145	102	160	102	189	116	218	131	232
	B	1575	1810	C	87	160	102	189	116	218	131	232	160	232	174	232	189	232	203		218	
				O	29	58	44	87	58	116	87	145	102	174	116	203	131	232	145		160	
	C	1400	1510	C	102	189	116	218	145	232	160	232	174	232	189	232	218		232		232	
				O	29	58	58	102	73	131	87	160	116	203	131	232	145		160		189	
	D	1225	1225	C	116		131		160		174		203		218		232		232		232	
				O	44		58		87		102		131		145		160		189		203	
	E	1050	1050	C	131		160		174		203		232		232		232		232		232	
				O	44		73		102		116		145		160		189		218		232	
	F	875	875	C	160		189		218		232		232		232		232					
				O	58		87		116		145		174		203		232					
	G	700	700	C	189		218		232		232		232		232							
				O	58		102		131		160		203		232							

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: 316 SS, Size 6" and 8" Lo dB Valves

Seat: Metal Seat and Soft Seat ( T1 through T4 trims)

Seat Leakage: Class IV and Class VI

Range: 7-25 psi

Maximum Pressure Drop in psi	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 174 psi
T4 trim (Soft Seat)	For T < 203° F - P < 493 psi
	For T > 203° F but < 400° F - P < 247 psi

Flow to Close - Air to Open																						
Size (in.)	ATA Adjust	C <sub>v</sub>		Position	Supply		Supply		Supply		Supply		Supply		Supply		Supply		Supply			
		Std. Cap.	High Cap.		35 psi		40 psi		45 psi		50 psi		55 psi		60 psi		65 psi		70 psi		75 psi	
					2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
					ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7
6"	A	210	260	C	276	377	319	377	363	377	377		377		377		377					
				O	102	189	145	290	189	377	247		290		334		377					
	B	190	220	C	319	377	377	377	377	377	377		377		377							
				O	116	232	174	348	232	377	290		348		377							
	C	170	185	C	377	377	377	377	377		377		377									
				O	131	276	203	377	261		334		377									
	D	145	145	C	377	377	377	377	377		377											
				O	145	305	232	377	305		377											
	E	125	125	C	377	377	377	377	377		377											
				O	174	348	261	377	348		377											
	F	105	105	C	377	377	377		377													
				O	203	377	305		377													
	G	85	85	C	377	377	377		377													
				O																		

Maximum Pressure Drop in psi	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 116 psi
T4 trim (Soft Seat)	For T < 203° F - P < 392 psi
	For T > 203° F but < 400° F - P < 203 psi

Flow to Close - Air to Open																						
Size (in.)	ATA Adjust	C <sub>v</sub>		Position	Supply		Supply		Supply		Supply		Supply		Supply		Supply		Supply			
		Std. Cap.	High Cap.		35 psi		40 psi		45 psi		50 psi		55 psi		60 psi		65 psi		70 psi		75 psi	
					2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
					ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7
8"	A	360	435	C	116	247	131	261	160	261	174	261	203	261	218	261	247		261		261	
				O	44	87	58	131	87	174	102	203	131	261	145	261	160		189		203	
	B	325	370	C	145	261	160	261	189	261	218	261	247	261	261		261		261		261	
				O	44	102	73	145	102	203	131	261	145	261	174		203		232		247	
	C	290	310	C	160	261	189	261	218	261	247	261	261		261		261		261		261	
				O	58	116	87	174	116	232	145	261	174		203		232		261		261	
	D	250	250	C	174	261	218	261	247	261	261		261		261		261					
				O	58	131	102	189	131	261	160		189		232		261					
	E	215	215	C	203	261	247	261	261	261	261		261		261							
				O	73	145	116	232	145	261	189		232		261							
	F	180	180	C	247	261	261	261	261		261		261									
				O	87	174	131	261	174		218		261									
	G	145	145	C	261	261	261	261	261		261											
				O	102	203	160	261	203		261											

C : Closed O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN



Shaft: 316 SS, Size 10" and 12" Lo dB Valves  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in psi	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 116 psi
T4 trim (Soft Seat)	For T < 203° F - P < 334 psi
	For T > 203° F but < 400° F - P < 160 psi

Flow to Close - Air to Open																						
Size (in.)	ATA Adjust	C <sub>v</sub>		Position	Supply		Supply		Supply		Supply		Supply		Supply		Supply		Supply			
		Std. Cap.	High Cap.		35 psi		40 psi		45 psi		50 psi		55 psi		60 psi		65 psi		70 psi		75 psi	
					2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
					ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9
10"	A	620	745	C	116	203	131	203	145	203	174		189		203		203		203		203	
				O	44	116	58	160	87	203	102		116		145		160		174		203	
	B	560	645	C	131	203	160	203	174	203	203		203		203		203		203			
				O	44	131	73	189	102	203	116		145		160		189		203			
	C	495	535	C	160	203	174	203	203		203		203		203		203					
				O	58	145	87	203	116		131		160		189		203					
	D	435	435	C	174	203	203	203	203		203		203		203							
				O	58	174	87	203	131		160		189		203							
	E	370	370	C	203	203	203	203	203		203		203									
				O	73	189	102	203	145		174		203									
	F	310	310	C	203	203	203		203		203											
				O	87	203	131		174		203											
	G	250	250	C	203	203	203		203		203											
				O	102	203	145		203		203											

Maximum Pressure Drop in psi	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 116 psi
T4 trim (Soft Seat)	For T < 203° F - P < 276 psi
	For T > 203° F but < 400° F - P < 145 psi

Flow to Close - Air to Open																						
Size (in.)	ATA Adjust	C <sub>v</sub>		Position	Supply		Supply		Supply		Supply		Supply		Supply		Supply		Supply			
		Std. Cap.	High Cap.		35 psi		40 psi		45 psi		50 psi		55 psi		60 psi		65 psi		70 psi		75 psi	
					2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
					ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9
12"	A	1000	1200	C	58	174	73	174	87	174	102	174	102	174	116		131		145		145	
				O	15	58	29	87	44	131	58	160	58	174	73		87		102		116	
	B	900	1035	C	73	174	87	174	102	174	116	174	131		145		160		174		174	
				O	29	73	44	116	44	145	58	174	87		102		102		116		131	
	C	800	865	C	87	174	102	174	116	174	131	174	145		160		174		174		174	
				O	29	87	44	131	58	174	73	174	87		102		116		145		160	
	D	700	700	C	102	174	116	174	131	174	145		160		174		174		174		174	
				O	29	102	44	145	73	174	87		102		116		145		160		174	
	E	600	600	C	116	174	131	174	145	174	174		174		174		174		174		174	
				O	44	116	58	160	87	174	102		116		145		160		174			
	F	500	500	C	131	174	160	174	174		174		174		174		174		174			
				O	44	131	73	174	102		116		145		160		174					
	G	400	400	C	160	174	174	174	174		174		174		174		174					
				O	58	160	87	174	116		145		174		174							

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: 316 SS, Size 16", Lo dB Valves

Seat: Metal Seat and Soft Seat ( T1 through T4 trims)

Seat Leakage: Class IV and Class VI

Range: 7-25 psi

Maximum Pressure Drop in psi	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 116 psi
T4 trim (Soft Seat)	For T < 203° F - P < 189 psi
	For T > 203° F but < 400° F - P < 131 psi

Flow to Close - Air to Open																						
Size (in.)	ATA Adjust	C <sub>v</sub>		Position	Supply		Supply		Supply		Supply		Supply		Supply		Supply		Supply			
		Std. Cap.	High Cap.		35 psi		40 psi		45 psi		50 psi		55 psi		60 psi		65 psi		70 psi		75 psi	
					2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
					ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13
16"	A	1750	2100	C	73	131	87	160	102	174	116	174	131	174	145	174	160	174	174	174	174	
				O	29	44	44	73	44	102	58	116	87	145	102	160	102	174	116	174	131	
	B	1575	1810	C	87	160	102	174	116	174	131	174	160	174	174	174	174		174		174	
				O	29	58	44	87	58	116	87	145	102	174	116	174	131		145		160	
	C	1400	1510	C	102	174	116	174	145	174	160	174	174	174	174		174		174		174	
				O	29	58	58	102	73	131	87	160	116	174	131		145		160		174	
	D	1225	1225	C	116		131		160		174		174		174		174		174			
				O	44		58		87		102		131		145		160		174			
	E	1050	1050	C	131		160		174		174		174		174		174					
				O	44		73		102		116		145		160		174					
	F	875	875	C	160		174		174		174		174		174							
				O	58		87		116		145		174		174							
	G	700	700	C	174		174		174		174		174									
				O	58		102		131		160		174									

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

Shaft: Nitronic 50, Size 6" and 8", Lo dB Valves  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in psi	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 174 psi
T4 trim (Soft Seat)	For T < 203° F - P < 493 psi
	For T > 203° F but < 400° F - P < 247 psi

Flow to Close - Air to Open																						
Size (in.)	ATA Adjust	C <sub>v</sub>		Position	Supply		Supply		Supply		Supply		Supply		Supply		Supply		Supply			
		Std. Cap.	High Cap.		35 psi		40 psi		45 psi		50 psi		55 psi		60 psi		65 psi		70 psi		75 psi	
					2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
					ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7
6"	A	210	260	C	276	551	319	595	363	595	421	595	464	595	508	595	566		595		595	
				O	102	189	145	290	189	392	247	493	290	595	334	595	392		435		479	
	B	190	220	C	319	595	377	595	435	595	493	595	551	595	595		595		595		595	
				O	116	232	174	348	232	464	290	595	348	595	406		464		522		580	
	C	170	185	C	377	595	435	595	508	595	566	595	595		595		595		595		595	
				O	131	276	203	406	261	537	334	595	406		464		537		595		595	
	D	145	145	C	421	595	493	595	566	595	595		595		595		595					
				O	145	305	232	464	305	595	377		450		522		595					
	E	125	125	C	479	595	580	595	595	595	595		595		595							
				O	174	348	261	537	348	595	435		522		595							
	F	105	105	C	580	595	595	595	595		595		595									
				O	203	421	305	595	406		522		595									
	G	85	85	C	595	595	595	595	595		595											
				O	247	493	363	595	479		595											

Maximum Pressure Drop in psi	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 116 psi
T4 trim (Soft Seat)	For T < 203° F - P < 392 psi
	For T > 203° F but < 400° F - P < 203 psi

Flow to Close - Air to Open																						
Size (in.)	ATA Adjust	C <sub>v</sub>		Position	Supply		Supply		Supply		Supply		Supply		Supply		Supply		Supply			
		Std. Cap.	High Cap.		35 psi		40 psi		45 psi		50 psi		55 psi		60 psi		65 psi		70 psi		75 psi	
					2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
					ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7
8"	A	360	435	C	116	247	131	276	160	319	174	363	203	406	218	421	247	421	261	421	276	421
				O	44	87	58	131	87	174	102	203	131	261	145	305	160	334	189	392	203	421
	B	325	370	C	145	290	160	334	189	392	218	421	247	421	261	421	290	421	319	421	334	
				O	44	102	73	145	102	203	131	261	145	305	174	348	203	406	232	421	247	
	C	290	310	C	160	319	189	392	218	421	247	421	276	421	305	421	334	421	363		392	
				O	58	116	87	174	116	232	145	290	174	348	203	406	232	421	261		290	
	D	250	250	C	174	377	218	421	247	421	276	421	305	421	348	421	377		406		421	
				O	58	131	102	189	131	261	160	334	189	392	232	421	261		290		319	
	E	215	215	C	203	421	247	421	290	421	319	421	363	421	406		421		421		421	
				O	73	145	116	232	145	305	189	377	232	421	261		305		334		377	
	F	180	180	C	247	421	290	421	334	421	377	421	421		421		421		421		421	
				O	87	174	131	276	174	363	218	421	261		305		348		406		421	
	G	145	145	C	290	421	348	421	392	421	421		421		421		421		421			
				O	102	203	160	319	203	421	261		319		363		421		421			

C : Closed O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: Nitronic 50, Size 10" and 12", Lo dB Valves  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in psi	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 116 psi
T4 trim (Soft Seat)	For T < 203° F - P < 334 psi
	For T > 203° F but < 400° F - P < 160 psi

Flow to Close - Air to Open																						
Size (in.)	ATA Adjust	C <sub>v</sub>		Position	Supply		Supply		Supply		Supply		Supply		Supply		Supply		Supply			
		Std. Cap.	High Cap.		35 psi		40 psi		45 psi		50 psi		55 psi		60 psi		65 psi		70 psi		75 psi	
					2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
					ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9
10"	A	620	745	C	116	305	131	334	145	334	174	334	189	334	218	232	261	276				
				O	44	116	58	160	87	218	102	276	116	334	145	160	174	203				
	B	560	645	C	131	334	160	334	174	334	203	334	232	334	261	276	305	319				
				O	44	131	73	189	102	261	116	334	145	334	160	189	218	247				
	C	495	535	C	160	334	174	334	203	334	232	334	261	290	319	334	334					
				O	58	145	87	232	116	305	131	334	160	189	218	247	276					
	D	435	435	C	174	334	203	334	232	334	276	305	334	334	334	334	334	334	334			
				O	58	174	87	261	131	334	160	189	218	247	276	319	334					
	E	370	370	C	203	334	232	334	276	334	305	334	334	334	334	334	334	334	334			
				O	73	189	102	290	145	334	174	218	247	290	319	334						
	F	310	310	C	247	334	276	334	319	334	334	334	334	334	334	334						
				O	87	232	131	334	174	218	261	305	334									
	G	250	250	C	276	334	334	334	334	334	334	334	334	334	334							
				O	102	276	145	334	203	247	305	334										

Maximum Pressure Drop in psi	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 116 psi
T4 trim (Soft Seat)	For T < 203° F - P < 276 psi
	For T > 203° F but < 400° F - P < 145 psi

Flow to Close - Air to Open																						
Size (in.)	ATA Adjust	C <sub>v</sub>		Position	Supply		Supply		Supply		Supply		Supply		Supply		Supply		Supply			
		Std. Cap.	High Cap.		35 psi		40 psi		45 psi		50 psi		55 psi		60 psi		65 psi		70 psi		75 psi	
					2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
					ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9
12"	A	1000	1200	C	58	174	73	203	87	232	102	261	102	290	116	290	131	290	145	290	145	290
				O	15	58	29	87	44	131	58	160	58	189	73	218	87	247	102	276	116	290
	B	900	1035	C	73	203	87	247	102	276	116	290	131	290	145	290	160	290	174	174		
				O	29	73	44	116	44	145	58	189	87	218	102	261	102	290	116	131		
	C	800	865	C	87	232	102	276	116	290	131	290	145	290	160	290	174	189	203			
				O	29	87	44	131	58	174	73	203	87	261	102	290	116	145	160			
	D	700	700	C	102	276	116	290	131	290	145	290	160	290	189	203	218	247				
				O	29	102	44	145	73	189	87	247	102	290	116	145	160	174				
	E	600	600	C	116	290	131	290	145	290	174	290	189	290	218	232	261	276				
				O	44	116	58	160	87	218	102	276	116	290	145	160	174	203				
	F	500	500	C	131	290	160	290	174	290	203	290	232	261	276	290	290	290				
				O	44	131	73	189	102	261	116	290	145	160	189	218	247					
	G	400	400	C	160	290	189	290	218	290	247	276	290	290	290	290	290	290				
				O	58	160	87	232	116	290	145	174	189	232	261	276						

C : Closed O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: Nitronic 50, Size 16", Lo dB Valves

Seat: Metal Seat and Soft Seat ( T1 through T4 trims)

Seat Leakage: Class IV and Class VI

Range: 7-25 psi

Maximum Pressure Drop in psi	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 116 psi
T4 trim (Soft Seat)	For T < 203° F - P < 189 psi
	For T > 203° F but < 400° F - P < 131 psi

Flow to Close - Air to Open																						
Size (in.)	ATA Adjust	C <sub>v</sub>		Position	Supply		Supply		Supply		Supply		Supply		Supply		Supply		Supply			
		Std. Cap.	High Cap.		35 psi		40 psi		45 psi		50 psi		55 psi		60 psi		65 psi		70 psi		75 psi	
					2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
					ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13
16"	A	1750	2100	C	73	131	87	160	102	174	116	203	131	232	145	232	160	232	174	232	174	232
				O	29	44	44	73	44	102	58	116	87	145	102	160	102	189	116	218	131	232
	B	1575	1810	C	87	160	102	189	116	218	131	232	160	232	174	232	189	232	203		218	
				O	29	58	44	87	58	116	87	145	102	174	116	203	131	232	145		160	
	C	1400	1510	C	102	189	116	218	145	232	160	232	174	232	189	232	218		232		232	
				O	29	58	58	102	73	131	87	160	116	203	131	232	145		160		189	
	D	1225	1225	C	116		131		160		174		203		218		232		232		232	
				O	44		58		87		102		131		145		160		189		203	
	E	1050	1050	C	131		160		174		203		232		232		232		232		232	
				O	44		73		102		116		145		160		189		218		232	
	F	875	875	C	160		189		218		232		232		232		232					
				O	58		87		116		145		174		203		232					
	G	700	700	C	189		218		232		232		232		232							
				O	58		102		131		160		203		232							

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

# Metric Units Standard Trim

Allowable Pressure  
Drop Tables

30000 Series Varimax

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## Metric Units

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		200 mm	FTO	57	
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	<b>316 SS Shaft</b>	150 mm	FTO	61	
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		200 mm	FTC	72	
		250 mm	FTC	73	
		300 mm	FTC	74	
		400 mm	FTC	75	
	<b>316 SS Shaft</b>	150 mm	FTC	76	
		200 mm	FTC	77	
		250 mm	FTC	78	
		300 mm	FTC	79	
400 mm		FTC	80		
<b>Nitronic 50 Shaft</b>	150 mm	FTC	81		
	200 mm	FTC	82		
	250 mm	FTC	83		
	300 mm	FTC	84		
	400 mm	FTC	85		

Shaft: 17-4PH, DN 150 mm  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in bar	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 12 bar
T4 trim (Soft Seat)	For T < 95° C - P < 41 bar
	For T > 95° C but < 205° C - P < 21 bar

Flow to Open - Air to Close																						
Size DN	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar		Supply 40 psi 2.8 bar		Supply 45 psi 3.1 bar		Supply 50 psi 3.4 bar		Supply 55 psi 3.8 bar		Supply 60 psi 4.1 bar		Supply 65 psi 4.5 bar		Supply 70 psi 4.8 bar		Supply 75 psi 5.2 bar		
				ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	
				150	A	595	C	4	12	8	18	11	25	14	32	18	39	21	46	24	52	28
O	4	8	4				8	4	8	4	8	4	8	4	8	4	8	4	8	4		4
B	545	C	6		14	10	22	14	30	18	39	22	47	26	52	30		34			38	
		O	6		13	7	13	7	13	7	13	7	13	7	13	7			7			7
C	500	C	7		17	12	26	16	35	21	45	26	52	30		35		39			44	
		O	7		17	9	19	9	19	9	19	9	19	9		9		9			9	
D	435	C	8		19	13	30	19	40	24	51	29	52	34		39		45			50	
		O	8		19	13	30	19	40	22	45	22	45	22		22		22			22	
E	365	C	10		22	16	35	22	47	28	52	34		40		46		52				
		O	10		22	16	35	22	47	28	52	34		40		46		52				
F	290	C	12		27	19	41	26	52	33		41		48		52						
		O	12		27	19	41	26	52	33		41		48		52						
G	215	C	14		32	23	49	31	52	40		48		52								
		O	14		32	23	49	31	52	40		48		52								

Flow to Open - Air to Open						
Size DN	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar		
				ATA5	ATA7	ATA13
150	A	595	C	2	8	
			O	2	8	
	B	545	C	3	9	
			O	3	9	
	C	500	C	4	11	
			O	4	11	
	D	435	C	5	13	
			O	5	13	
	E	365	C	6	15	
			O	6	15	
	F	290	C	8	18	
			O	8	18	
	G	215	C	10	22	
			O	10	22	

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN



Shaft: 17-4PH, DN 200 mm  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in bar	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 8 bar
T4 trim (Soft Seat)	For T < 95° C - P < 27 bar
	For T > 95° C but < 205° C - P < 14 bar

Flow to Open - Air to Close																					
Size DN	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar		Supply 40 psi 2.8 bar		Supply 45 psi 3.1 bar		Supply 50 psi 3.4 bar		Supply 55 psi 3.8 bar		Supply 60 psi 4.1 bar		Supply 65 psi 4.5 bar		Supply 70 psi 4.8 bar		Supply 75 psi 5.2 bar	
				ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7
				200	A	1100	C	1	4	3	7	4	10	6	13	7	16	8	19	10	22
O	1	3	2				3	2	3	2	3	2	3	2	3	2	3	2	3	2	3
B	1010	C	2		6	3	9	5	12	7	16	9	20	10	23	12	27	14	30	16	33
		O	2		6	3	7	3	7	3	7	3	7	3	7	3	7	3	7	3	7
C	920	C	2		7	4	10	6	14	8	19	10	23	12	27	14	31	16	35	18	39
		O	2		7	4	10	6	13	7	13	7	13	7	13	7	13	7	13	7	13
D	805	C	3		8	5	12	7	17	10	21	12	26	14	30	16	35	19	40	21	41
		O	3		8	5	12	7	17	10	21	12	26	14	30	16	35	19	40	21	41
E	675	C	3		9	6	14	9	19	11	25	14	30	17	35	19	41	22	41	24	
		O	3		9	6	14	9	19	11	25	14	30	17	35	19	41	22	41	24	
F	540	C	4		11	8	17	11	23	14	30	17	36	20	41	23		26		29	
		O	4		11	8	17	11	23	14	30	17	36	20	41	23		26		29	
G	395	C	6		13	9	20	13	28	17	35	20	41	24		27		31		35	
		O	6		13	9	20	13	28	17	35	20	41	24		27		31		35	

Flow to Open - Air to Open							
Size DN	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar			
				ATA5	ATA7	ATA9	ATA13
200	A	1100	C		2		
			O		2		
	B	1010	C	1	3		
			O	1	3		
	C	920	C	1	4		
			O	1	4		
	D	805	C	1	5		
			O	1	5		
	E	675	C	2	6		
			O	2	6		
	F	540	C	3	7		
			O	3	7		
G	395	C	3	9			
		O	3	9			

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: 17-4PH, DN 250 mm  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in bar	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 8 bar
T4 trim (Soft Seat)	For T < 95° C - P < 23 bar
	For T > 95° C but < 205° C - P < 11 bar

Flow to Open - Air to Close																						
Size DN	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar		Supply 40 psi 2.8 bar		Supply 45 psi 3.1 bar		Supply 50 psi 3.4 bar		Supply 55 psi 3.8 bar		Supply 60 psi 4.1 bar		Supply 65 psi 4.5 bar		Supply 70 psi 4.8 bar		Supply 75 psi 5.2 bar		
				ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	
				250	A	1800	C	1	6	3	10	4	14	6	18	7	22	8	26	10	29	11
O	1	5	2				5	2	5	2	5	2	5	2	5	2	5	2	5	2	5	2
B	1670	C	2		8	4	12	5	17	7	21	9	26	10	31	12	31	14	5	15	5	15
		O	2		8	4	12	5	15	5	15	5	15	5	15	5	15	5	15	5	15	5
C	1430	C	2		9	4	14	6	20	8	25	10	30	12	31	14	16	18	16	18	18	18
		O	2		9	4	14	6	20	8	25	10	30	12	31	14	16	18	16	18	18	18
D	1155	C	3		11	5	17	7	22	10	28	12	31	14	16	18	18	18	18	18	18	20
		O	3		11	5	17	7	22	10	28	12	31	14	16	18	18	18	18	18	18	20
E	910	C	4		12	6	19	9	26	11	31	13	16	19	21	23	23	23	23	23	23	23
		O	4		12	6	19	9	26	11	31	13	16	19	21	23	23	23	23	23	23	23
F	730	C	4		15	8	23	10	31	13	17	19	22	26	28	28	28	28	28	28	28	28
		O	4		15	8	23	10	31	13	17	19	22	26	28	28	28	28	28	28	28	28
G	535	C	6		18	9	27	13	31	16	20	23	27	30	31	31	31	31	31	31	31	31
		O	6		18	9	27	13	31	16	20	23	27	30	31	31	31	31	31	31	31	31

Flow to Open - Air to Open						
Size DN	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar		
				ATA5	ATA7	ATA9
250	A	1800	C	1	4	
			O	1	4	
	B	1670	C	1	5	
			O	1	5	
	C	1430	C	1	6	
			O	1	6	
	D	1155	C	2	7	
			O	2	7	
	E	910	C	2	8	
			O	2	8	
	F	730	C	3	10	
			O	3	10	
G	535	C	3	12		
		O	3	12		

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: 17-4PH, DN 300 mm  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in bar	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 8 bar
T4 trim (Soft Seat)	For T < 95° C - P < 19 bar
	For T > 95° C but < 205° C - P < 10 bar

Flow to Open - Air to Close																					
Size DN	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar		Supply 40 psi 2.8 bar		Supply 45 psi 3.1 bar		Supply 50 psi 3.4 bar		Supply 55 psi 3.8 bar		Supply 60 psi 4.1 bar		Supply 65 psi 4.5 bar		Supply 70 psi 4.8 bar		Supply 75 psi 5.2 bar	
				ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9
				300	A	2600	C	3	1	5	2	8	3	10	3	12	4	14	5	16	6
O	3	1	3				1	3	1	3	1	3	1	3	1	3	1	3	1	3	1
B	2235	C	1		4	2	7	2	9	3	12	4	14	6	17	6	19	7	21	8	
		O	1		4	2	6	2	6	2	6	2	6	2	6	2	6	2	6	2	6
C	1875	C	1		5	2	8	3	11	4	13	5	17	6	19	7	21	9		10	
		O	1		5	2	8	3	11	4	11	4	11	4	11	4	11	4	11	4	
D	1540	C	1		6	2	9	4	12	5	16	6	19	7	21	9		10		11	
		O	1		6	2	9	4	12	5	16	6	18	7	18	7		7		7	
E	1260	C	2		7	3	10	4	14	6	18	7	21	9		10		11		13	
		O	2		7	3	10	4	14	6	18	7	21	9		10		11		11	
F	1005	C	2		8	4	12	6	17	7	21	9		10		12		14		16	
		O	2		8	4	12	6	17	7	21	9		10		12		14		14	
G	750	C	3		10	5	15	7	20	9	21	11		12		14		17		18	
		O	3		10	5	15	7	20	9	21	11		12		14		17		17	

Flow to Open - Air to Open							
Size DN	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar			
				ATA5	ATA7	ATA9	ATA13
300	A	2600	C			2	
			O			2	
	B	2235	C			2	
			O			2	
	C	1875	C			3	
			O			3	
	D	1540	C			3	
			O			3	
	E	1260	C		1	4	
			O		1	4	
	F	1005	C		1	5	
			O		1	5	
G	750	C		2	6		
		O		2	6		

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: 17-4PH, DN 400 mm  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in bar	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 8 bar
T4 trim (Soft Seat)	For T < 95° C - P < 13 bar
	For T > 95° C but < 205° C - P < 9 bar

Flow to Open - Air to Close																					
Size DN	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar		Supply 40 psi 2.8 bar		Supply 45 psi 3.1 bar		Supply 50 psi 3.4 bar		Supply 55 psi 3.8 bar		Supply 60 psi 4.1 bar		Supply 65 psi 4.5 bar		Supply 70 psi 4.8 bar		Supply 75 psi 5.2 bar	
				ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13
				400	A	4830	C	1	2	2	4	3	6	4	7	5	9	6	11	7	12
O	1	2	1				2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
B	4150	C	1		3	2	5	3	7	4	9	6	11	7	13	8	15	9	16	10	2
		O	1		3	2	4	2	4	2	4	2	4	2	4	2	4	2	4	2	4
C	3485	C	2		4	3	6	4	8	6	11	7	13	8	16	9	16	11	12	12	2
		O	2		4	3	6	4	8	4	9	4	9	4	9	4	9	4	9	4	9
D	2860	C	2			3		5		6		8		9		11		12		13	
		O	2			3		5		6		8		9		11		12		13	
E	2340	C	2			4		6		7		9		11		12		14		16	
		O	2			4		6		7		9		11		12		14		16	
F	1865	C	3			5		7		9		11		13		15		16		16	
		O	3			5		7		9		11		13		15		16		16	
G	1395	C	4			6		8		11		13		16		16		16		16	
		O	4			6		8		11		13		16		16		16		16	

Flow to Open - Air to Open							
Size DN	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar			
				ATA5	ATA7	ATA9	ATA13
400	A	4830	C				1
			O				1
	B	4150	C			1	2
			O			1	2
	C	3485	C			1	2
			O			1	2
	D	2860	C				1
			O				1
	E	2340	C				1
			O				1
	F	1865	C				2
			O				2
G	1395	C				2	
		O				2	

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: 316 SS, DN 150 mm  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in bar	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 12 bar
T4 trim (Soft Seat)	For T < 95° C - P < 34 bar
	For T > 95° C but < 205° C - P < 17 bar

Flow to Open - Air to Close																					
Size DN	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar		Supply 40 psi 2.8 bar		Supply 45 psi 3.1 bar		Supply 50 psi 3.4 bar		Supply 55 psi 3.8 bar		Supply 60 psi 4.1 bar		Supply 65 psi 4.5 bar		Supply 70 psi 4.8 bar		Supply 75 psi 5.2 bar	
				ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7
				150	A	595	C	4	12	8	18	11	24	14	14	18	21	24	24		
O	4	8	4				8	4	8	4	4	4	4	4	4						
B	545	C	6		14	10	22	14	24	18		22	24								
		O	6		13	7	13	7	13	7		7	7								
C	500	C	7		17	12	24	16		21		24									
		O	7		17	9	19	9		9		9									
D	435	C	8		19	13	24	19		24											
		O	8		19	13	24	19		22											
E	365	C	10		22	16	24	22		24											
		O	10		22	16	24	22		24											
F	290	C	12		24	19		24													
		O	12		24	19		24													
G	215	C	14		24	23		24													
		O	14		24	23		24													

Flow to Open - Air to Open						
Size DN	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar		
				ATA5	ATA7	ATA13
150	A	595	C	2	8	
			O	2	8	
	B	545	C	3	9	
			O	3	9	
	C	500	C	4	11	
			O	4	11	
	D	435	C	5	13	
			O	5	13	
	E	365	C	6	15	
			O	6	15	
	F	290	C	8	18	
			O	8	18	
	G	215	C	10	22	
			O	10	22	

C : Closed O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: 316 SS, DN 200 mm  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in bar	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 8 bar
T4 trim (Soft Seat)	For T < 95° C - P < 27 bar
	For T > 95° C but < 205° C - P < 14 bar

Flow to Open - Air to Close																					
Size DN	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar		Supply 40 psi 2.8 bar		Supply 45 psi 3.1 bar		Supply 50 psi 3.4 bar		Supply 55 psi 3.8 bar		Supply 60 psi 4.1 bar		Supply 65 psi 4.5 bar		Supply 70 psi 4.8 bar		Supply 75 psi 5.2 bar	
				ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7
				200	A	1100	C	1	4	3	7	4	10	6	13	7	16	8	10	11	13
O	1	3	2				3	2	3	2	3	2	3	2	2	2	2	2			
B	1010	C	2		6	3	9	5	12	7	16	9	10	12	14	16					
		O	2		6	3	7	3	7	3	7	3	3	3	3	3	3	3			
C	920	C	2		7	4	10	6	14	8	16	10	12	14	16						
		O	2		7	4	10	6	13	7	13	7	7	7	7	7	7	7			
D	805	C	3		8	5	12	7	16	10	12	14	16	16							
		O	3		8	5	12	7	16	10	12	14	14	16	16						
E	675	C	3		9	6	14	9	16	11	14	16	16								
		O	3		9	6	14	9	16	11	14	16	16								
F	540	C	4		11	8	16	11	14	16	16										
		O	4		11	8	16	11	14	16	16										
G	395	C	6		13	9	16	13	16	16											
		O	6		13	9	16	13	16	16											

Flow to Open - Air to Open							
Size DN	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar			
				ATA5	ATA7	ATA9	ATA13
200	A	1100	C		2		
			O		2		
	B	1010	C	1	3		
			O	1	3		
	C	920	C	1	4		
			O	1	4		
	D	805	C	1	5		
			O	1	5		
	E	675	C	2	6		
			O	2	6		
	F	540	C	3	7		
			O	3	7		
	G	395	C	3	9		
			O	3	9		

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: 316 SS, DN250 mm  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in bar	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 8 bar
T4 trim (Soft Seat)	For T < 95° C - P < 23 bar
	For T > 95° C but < 205° C - P < 11 bar

Flow to Open - Air to Close																					
Size DN	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar		Supply 40 psi 2.8 bar		Supply 45 psi 3.1 bar		Supply 50 psi 3.4 bar		Supply 55 psi 3.8 bar		Supply 60 psi 4.1 bar		Supply 65 psi 4.5 bar		Supply 70 psi 4.8 bar		Supply 75 psi 5.2 bar	
				ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9
				250	A	1800	C	1	6	3	10	4	13	6		7		8		10	
O	1	5	2				5	2	5	2		2		2		2		2		2	
B	1670	C	2		8	4	12	5	13	7		9		10		12		13			
		O	2		8	4	12	5	13	5		5		5		5		5			
C	1430	C	2		9	4	13	6		8		10		12		13					
		O	2		9	4	13	6		8		10		12		13					
D	1155	C	3		11	5	13	7		10		12		13							
		O	3		11	5	13	7		10		12		13							
E	910	C	4		12	6	13	9		11		13									
		O	4		12	6	13	9		11		13									
F	730	C	4		13	8		10		13											
		O	4		13	8		10		13											
G	535	C	6		13	9		13		13											
		O	6		13	9		13		13											

Flow to Open - Air to Open						
Size DN	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar		
				ATA5	ATA7	ATA9
250	A	1800	C		1	4
			O		1	4
	B	1670	C		1	5
			O		1	5
	C	1430	C		1	6
			O		1	6
	D	1155	C		2	7
			O		2	7
	E	910	C		2	8
			O		2	8
	F	730	C		3	10
			O		3	10
	G	535	C		3	12
			O		3	12

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: 316 SS, DN 300 mm  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in bar	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 8 bar
T4 trim (Soft Seat)	For T < 95° C - P < 19 bar
	For T > 95° C but < 205° C - P < 10 bar

Flow to Open - Air to Close																					
Size DN	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar		Supply 40 psi 2.8 bar		Supply 45 psi 3.1 bar		Supply 50 psi 3.4 bar		Supply 55 psi 3.8 bar		Supply 60 psi 4.1 bar		Supply 65 psi 4.5 bar		Supply 70 psi 4.8 bar		Supply 75 psi 5.2 bar	
				ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9
				300	A	2600	C		3	1	5	2	8	3	10	3	11	4		5	
O		3	1				3	1	3	1	3	1	3	1	3	1		1		1	
B	2235	C	1		4	2	7	2	9	3	11	4		6		6		7		8	
		O	1		4	2	6	2	6	2	6	2		2		2		2		2	
C	1875	C	1		5	2	8	3	11	4	11	5		6		7		9		10	
		O	1		5	2	8	3	11	4	11	4		4		4		4		4	
D	1540	C	1		6	2	9	4	11	5		6		7		9		10		11	
		O	1		6	2	9	4	11	5		6		7		7		7		7	
E	1260	C	2		7	3	10	4	11	6		7		9		10		11			
		O	2		7	3	10	4	11	6		7		9		10		11			
F	1005	C	2		8	4	11	6		7		9		10		11					
		O	2		8	4	11	6		7		9		10		11					
G	750	C	3		10	5	11	7		9		11		11							
		O	3		10	5	11	7		9		11		11		11					

Flow to Open - Air to Open							
Size DN	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar			
				ATA5	ATA7	ATA9	ATA13
300	A	2600	C			2	
			O			2	
	B	2235	C			2	
			O			2	
	C	1875	C			3	
			O			3	
	D	1540	C			3	
			O			3	
	E	1260	C		1	4	
			O		1	4	
	F	1005	C		1	5	
			O		1	5	
G	750	C		2	6		
		O		2	6		

C : Closed O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN



Shaft: 316 SS, DN 400 mm  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in bar	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 8 bar
T4 trim (Soft Seat)	For T < 95° C - P < 13 bar
	For T > 95° C but < 205° C - P < 9 bar

Flow to Open - Air to Close																					
Size DN	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi		Supply 40 psi		Supply 45 psi		Supply 50 psi		Supply 55 psi		Supply 60 psi		Supply 65 psi		Supply 70 psi		Supply 75 psi	
				2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
				ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13
400	A	4830	C	1	2	2	4	3	6	4	7	5	9	6	11	7	11	8	11	8	8
			O	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	1
	B	4150	C	1	3	2	5	3	7	4	9	6	11	7	8	8	9	9	9	10	10
			O	1	3	2	4	2	4	2	4	2	4	2	2	2	2	2	2	2	2
	C	3485	C	2	4	3	6	4	8	6	11	7	11	8	9	11	11	11	11	11	11
			O	2	4	3	6	4	8	4	9	4	9	4	4	4	4	4	4	4	4
	D	2860	C	2		3		5		6		8		9		11		11		11	
			O	2		3		5		6		8		8		8		8		8	
	E	2340	C	2		4		6		7		9		11		11		11		11	
			O	2		4		6		7		9		11		11		11		11	
	F	1865	C	3		5		7		9		11		11		11		11		11	
			O	3		5		7		9		11		11		11		11		11	
	G	1395	C	4		6		8		11		11		11		11		11		11	
			O	4		6		8		11		11		11		11		11		11	

Flow to Open - Air to Open						
Size DN	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi		
				ATA5	ATA7	ATA9
400	A	4830	C			1
			O			1
	B	4150	C			1
			O			2
	C	3485	C			1
			O			2
	D	2860	C			1
			O			1
	E	2340	C			1
			O			1
	F	1865	C			2
			O			2
	G	1395	C			2
			O			2

C : Closed O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: Nitronic 50, DN 150 mm  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in bar	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 12 bar
T4 trim (Soft Seat)	For T < 95° C - P < 34 bar
	For T > 95° C but < 205° C - P < 17 bar

Flow to Open - Air to Close																					
Size DN	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar		Supply 40 psi 2.8 bar		Supply 45 psi 3.1 bar		Supply 50 psi 3.4 bar		Supply 55 psi 3.8 bar		Supply 60 psi 4.1 bar		Supply 65 psi 4.5 bar		Supply 70 psi 4.8 bar		Supply 75 psi 5.2 bar	
				ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7
				150	A	595	C	4	12	8	18	11	25	14	32	18	39	21	40	24	28
O	4	8	4				8	4	8	4	8	4	8	4	8	4	8	4	8	4	8
B	545	C	6		14	10	22	14	30	18	39	22	40	26	30	34	34	34	38	38	38
		O	6		13	7	13	7	13	7	13	7	13	7	13	7	13	7	13	7	13
C	500	C	7		17	12	26	16	35	21	40	26	30	35	39	39	39	40	40	40	40
		O	7		17	9	19	9	19	9	19	9	19	9	19	9	19	9	19	9	19
D	435	C	8		19	13	30	19	40	24	29	34	39	40	40	40	40	40	40	40	40
		O	8		19	13	30	19	40	22	22	22	22	22	22	22	22	22	22	22	22
E	365	C	10		22	16	35	22	40	28	34	40	40	40	40	40	40	40	40	40	40
		O	10		22	16	35	22	40	28	34	40	40	40	40	40	40	40	40	40	40
F	290	C	12		27	19	40	26	33	40	40	40	40	40	40	40	40	40	40	40	40
		O	12		27	19	40	26	33	40	40	40	40	40	40	40	40	40	40	40	40
G	215	C	14		32	23	40	31	40	40	40	40	40	40	40	40	40	40	40	40	40
		O	14		32	23	40	31	40	40	40	40	40	40	40	40	40	40	40	40	40

Flow to Open - Air to Open						
Size DN	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar		
				ATA5	ATA7	ATA13
150	A	595	C	2	8	
			O	2	8	
	B	545	C	3	9	
			O	3	9	
	C	500	C	4	11	
			O	4	11	
	D	435	C	5	13	
			O	5	13	
	E	365	C	6	15	
			O	6	15	
F	290	C	8	18		
		O	8	18		
G	215	C	10	22		
		O	10	22		

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: Nitronic 50, DN 200 mm  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in bar	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 8 bar
T4 trim (Soft Seat)	For T < 95° C - P < 27 bar
	For T > 95° C but < 205° C - P < 14 bar

Flow to Open - Air to Close																						
Size DN	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar		Supply 40 psi 2.8 bar		Supply 45 psi 3.1 bar		Supply 50 psi 3.4 bar		Supply 55 psi 3.8 bar		Supply 60 psi 4.1 bar		Supply 65 psi 4.5 bar		Supply 70 psi 4.8 bar		Supply 75 psi 5.2 bar		
				ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	
				200	A	1100	C	1	4	3	7	4	10	6	13	7	16	8	19	10	22	11
O	1	3	2				3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2
B	1010	C	2		6	3	9	5	12	7	16	9	20	10	23	12	27	14	28	16		
		O	2		6	3	7	3	7	3	7	3	7	3	7	3	7	3	7	3	7	3
C	920	C	2		7	4	10	6	14	8	19	10	23	12	27	14	28	16				18
		O	2		7	4	10	6	13	7	13	7	13	7	13	7	13	7	13	7		
D	805	C	3		8	5	12	7	17	10	21	12	26	14	28	16					19	21
		O	3		8	5	12	7	17	10	21	12	26	14	28	16					19	21
E	675	C	3		9	6	14	9	19	11	25	14	28	17			19			22		24
		O	3		9	6	14	9	19	11	25	14	28	17			19			22		24
F	540	C	4		11	8	17	11	23	14	28	17			20		23			26		28
		O	4		11	8	17	11	23	14	28	17			20		23			26		28
G	395	C	6		13	9	20	13	28	17			20		24		27			28		
		O	6		13	9	20	13	28	17			20		24		27			28		

Flow to Open - Air to Open						
Size DN	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar		
				ATA5	ATA7	ATA13
200	A	1100	C		2	
			O		2	
	B	1010	C	1	3	
			O	1	3	
	C	920	C	1	4	
			O	1	4	
	D	805	C	1	5	
			O	1	5	
	E	675	C	2	6	
			O	2	6	
	F	540	C	3	7	
			O	3	7	
G	395	C	3	9		
		O	3	9		

C : Closed O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: Nitronic 50, DN 250 mm  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in bar	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 8 bar
T4 trim (Soft Seat)	For T < 95° C - P < 23 bar
	For T > 95° C but < 205° C - P < 11 bar

Flow to Open - Air to Close																					
Size DN	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar		Supply 40 psi 2.8 bar		Supply 45 psi 3.1 bar		Supply 50 psi 3.4 bar		Supply 55 psi 3.8 bar		Supply 60 psi 4.1 bar		Supply 65 psi 4.5 bar		Supply 70 psi 4.8 bar		Supply 75 psi 5.2 bar	
				ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9
				250	A	1800	C	1	6	3	10	4	14	6	18	7	22	8	22	10	
O	1	5	2				5	2	5	2	5	2	5	2	5	2			2		2
B	1670	C	2		8	4	12	5	17	7	21	9	22	10		12		14		15	
		O	2		8	4	12	5	15	5	15	5	15	5		5		5		5	
C	1430	C	2		9	4	14	6	20	8	22	10		12		14		16		18	
		O	2		9	4	14	6	20	8	22	10		12		14		16		18	
D	1155	C	3		11	5	17	7	22	10		12		14		16		18		20	
		O	3		11	5	17	7	22	10		12		14		16		18		20	
E	910	C	4		12	6	19	9	22	11		13		16		19		21		22	
		O	4		12	6	19	9	22	11		13		16		19		21		22	
F	730	C	4		15	8	22	10		13		17		19		22					
		O	4		15	8	22	10		13		17		19		22					
G	535	C	6		18	9	22	13		16		20		22							
		O	6		18	9	22	13		16		20		22							

Flow to Open - Air to Open						
Size DN	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar		
				ATA5	ATA7	ATA9
250	A	1800	C		1	4
			O		1	4
	B	1670	C		1	5
			O		1	5
	C	1430	C		1	6
			O		1	6
	D	1155	C		2	7
			O		2	7
	E	910	C		2	8
			O		2	8
	F	730	C		3	10
			O		3	10
G	535	C		3	12	
		O		3	12	

C : Closed O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: Nitronic 50, DN 300 mm  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in bar	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 8 bar
T4 trim (Soft Seat)	For T < 95° C - P < 19 bar
	For T > 95° C but < 205° C - P < 10 bar

Flow to Open - Air to Close																							
Size DN	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi		Supply 40 psi		Supply 45 psi		Supply 50 psi		Supply 55 psi		Supply 60 psi		Supply 65 psi		Supply 70 psi		Supply 75 psi			
				2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar			
				ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9
300	A	2600	C		3	1	5	2	8	3	10	3	12	4	14	5	16	6	18	7	19		
			O		3	1	3	1	3	1	3	1	3	1	3	1	3	1	3	1	3	1	3
	B	2235	C	1	4	2	7	2	9	3	12	4	14	6	17	6	19	7			8		
			O	1	4	2	6	2	6	2	6	2	6	2	6	2	6	2	6	2			2
	C	1875	C	1	5	2	8	3	11	4	13	5	17	6	19	7					9		10
			O	1	5	2	8	3	11	4	11	4	11	4	11	4					4		4
	D	1540	C	1	6	2	9	4	12	5	16	6	19	7			9				10		11
			O	1	6	2	9	4	12	5	16	6	18	7			7				7		7
	E	1260	C	2	7	3	10	4	14	6	18	7	19	9			10				11		13
			O	2	7	3	10	4	14	6	18	7	19	9			10				11		13
	F	1005	C	2	8	4	12	6	17	7	19	9			10		12				14		16
			O	2	8	4	12	6	17	7	19	9			10		12				14		16
	G	750	C	3	10	5	15	7	19	9		11			12		14				17		18
			O	3	10	5	15	7	19	9		11			12		14				17		18

Flow to Open - Air to Open							
Size DN	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi			
				2.4 bar			
			ATA5	ATA7	ATA9	ATA13	
300	A	2600	C			2	
			O			2	
	B	2235	C			2	
			O			2	
	C	1875	C			3	
			O			3	
	D	1540	C			3	
			O			3	
	E	1260	C		1	4	
			O		1	4	
	F	1005	C		1	5	
			O		1	5	
	G	750	C		2	6	
			O		2	6	

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: Nitronic 50, DN 400 mm  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in bar	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 8 bar
T4 trim (Soft Seat)	For T <95° C - P < 13 bar
	For T > 95° C but < 205° C - P < 9 bar

Flow to Open - Air to Close																					
Size DN	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar		Supply 40 psi 2.8 bar		Supply 45 psi 3.1 bar		Supply 50 psi 3.4 bar		Supply 55 psi 3.8 bar		Supply 60 psi 4.1 bar		Supply 65 psi 4.5 bar		Supply 70 psi 4.8 bar		Supply 75 psi 5.2 bar	
				ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13
				400	A	4830	C	1	2	2	4	3	6	4	7	5	9	6	11	7	12
O	1	2	1				2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
B	4150	C	1		3	2	5	3	7	4	9	6	11	7	13	8	15	9	16	10	2
		O	1		3	2	4	2	4	2	4	2	4	2	4	2	4	2	4	2	4
C	3485	C	2		4	3	6	4	8	6	11	7	13	8	16	9	16	11	12	12	12
		O	2		4	3	6	4	8	4	9	4	9	4	9	4	9	4	9	4	9
D	2860	C	2			3		5		6		8		9		11		12		13	
		O	2			3		5		6		8		9		11		12		13	
E	2340	C	2			4		6		7		9		11		12		14		16	
		O	2			4		6		7		9		11		12		14		16	
F	1865	C	3			5		7		9		11		13		15		16		16	
		O	3			5		7		9		11		13		15		16		16	
G	1395	C	4			6		8		11		13		16		16		16		16	
		O	4			6		8		11		13		16		16		16		16	

Flow to Open - Air to Open							
Size DN	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar			
				ATA5	ATA7	ATA9	ATA13
400	A	4830	C				1
			O				1
	B	4150	C			1	2
			O			1	2
	C	3485	C			1	2
			O			1	2
	D	2860	C			1	
			O			1	
	E	2340	C			1	
			O			1	
	F	1865	C			2	
			O			2	
G	1395	C			2		
		O			2		

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: 17-4PH, DN 150 mm  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in bar	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 12 bar
T4 trim (Soft Seat)	For T < 95° C - P < 34 bar
	For T > 95° C but < 205° C - P < 17 bar

Flow to Close - Air to Open																						
Size DN	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi		Supply 40 psi		Supply 45 psi		Supply 50 psi		Supply 55 psi		Supply 60 psi		Supply 65 psi		Supply 70 psi		Supply 75 psi		
				2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar		
				ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	
150	A	550	C	19	38	22	45	25	52	29	52	32	52	34	52							
			O	2	4	3	6	4	8	5	10	6	12	7	14							
	B	510	C	22	46	26	52	30	52	34	52	38	52	42	52	46	52	48	52			
			O	2	4	3	7	4	9	6	12	7	14	8	16	9	19	10	20			
	C	460	C	26	52	30	52	35	52	39	52	44	52	49	52	52	52	52	52	52	52	
			O	2	5	4	8	5	10	6	13	8	15	9	18	10	20	11	23	12		
	D	405	C	29	52	34	52	39	52	45	52	50	52	52	52	52	52	52	52	52	52	
			O	3	6	4	9	6	12	8	16	9	19	11	22	12	25	14				
	E	355	C	33	52	40	52	46	52	52	52	52	52	52	52	52	52	52	52	52	52	
			O	4	8	6	12	8	17	10	21	12	25	14	28	16		18				
	F	315	C	40	52	47	52	52	52	52	52	52	52	52	52		52	52	52	52	52	
			O	6	11	8	17	11	23	14	29	17	33	20		22		25				
	G	240	C	47	52	52	52	52	52	52	52	52	52	52	52		52	52	52	52	52	
			O	8	16	12	24	16	32	19	39	23		27		31		35				

Flow to Close - Air to Close							
Size DN	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi			
				2.4 bar			
			ATA5	ATA7	ATA9	ATA13	
150	A	595	C	17	34		
			O	1	3		
	B	545	C	20	41		
			O	1	3		
	C	500	C	23	47		
			O	2	3		
	D	435	C	26	52		
			O	2	4		
	E	365	C	30	52		
			O	3	6		
	F	290	C	36	52		
			O	4	8		
	G	215	C	42	52		
			O	5	11		

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: 17-4PH, DN 200 mm  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in bar	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 8 bar
T4 trim (Soft Seat)	For T < 95° C - P < 27 bar
	For T > 95° C but < 205° C - P < 14 bar

Flow to Close - Air to Open																					
Size DN	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar		Supply 40 psi 2.8 bar		Supply 45 psi 3.1 bar		Supply 50 psi 3.4 bar		Supply 55 psi 3.8 bar		Supply 60 psi 4.1 bar		Supply 65 psi 4.5 bar		Supply 70 psi 4.8 bar		Supply 75 psi 5.2 bar	
				ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7
				200	A	950	C	8	17	9	19	11	22	12	25	12	26				
O	1	2	1				3	2	4	2	5	3	6								
B	890	C	10		20	11	23	13	27	15	30	17	34	18	37	20	41	22	41	23	41
		O	1		2	1	3	2	4	3	6	3	7	4	8	4	9	5	10	6	11
C	800	C	11		22	13	27	15	31	17	35	19	39	21	41	23	41	25	41	27	41
		O	1		2	2	4	2	5	3	7	4	8	4	9	5	10	6	12	6	13
D	705	C	12		26	15	30	17	35	19	39	21	41	24	41	26	41	28	41	30	41
		O	1		3	2	5	3	7	4	8	4	10	6	11	6	13	7	14	8	16
E	620	C	14		29	17	35	20	40	22	41	25	41	28	41	30	41	33	41	35	41
		O	2		4	3	7	4	9	5	11	6	13	8	15	9	18	10	20	11	22
F	545	C	17		35	20	41	23	41	26	41	29	41	32	41	36	41	39	41	41	41
		O	3		6	4	9	6	12	8	15	9	18	10	21	12	24	13	28	15	29
G	420	C	20		41	24	41	27	41	31	41	35	41	38	41	41	41	41	41	41	41
		O	4		9	7	13	9	18	11	22	13	27	15	31	18	35	20		22	

Flow to Close - Air to Close						
Size DN	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar		
				ATA5	ATA7	ATA13
200	A	950	C	7	14	
			O	1	1	
	B	890	C	9	18	
			O	1	1	
	C	800	C	10	20	
			O	1	2	
	D	705	C	11	23	
			O	1	2	
	E	620	C	13	26	
			O	1	3	
	F	545	C	15	31	
			O	2	4	
G	420	C	18	37		
		O	3	6		

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN



Shaft: 17-4PH, DN 250 mm  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in bar	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 8 bar
T4 trim (Soft Seat)	For T < 95° C - P < 23 bar
	For T > 95° C but < 205° C - P < 11 bar

Flow to Close - Air to Open																							
Size DN	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi		Supply 40 psi		Supply 45 psi		Supply 50 psi		Supply 55 psi		Supply 60 psi		Supply 65 psi		Supply 70 psi		Supply 75 psi			
				2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar			
				ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9
250	A	1600	C	8	21	9	25	10	29														
			O	1	3	2	5	2	7														
	B	1450	C	9	26	11	30	12	31	14	31	16	31	18	31	19	31	21	31	22	31	22	31
			O	1	3	2	6	2	7	3	9	4	11	4	13	5	15	6	17	7	18	7	18
	C	1295	C	11	29	12	31	14	31	16	31	18	31	20	31	22	31	24	31	24	31	26	31
			O	1	4	2	6	3	8	3	10	4	12	5	14	6	17	7	18	7	18	7	18
	D	1110	C	12	31	14	31	16	31	19	31	21	31	23	31	25	31	27	31	27	31	29	31
			O	2	5	3	8	4	10	5	13	6	16	7	18	8	20	9	21	9	21	10	22
	E	935	C	14	31	16	31	19	31	21	31	24	31	26	31	29	31	31	31	31	31	31	31
			O	2	7	4	11	5	15	7	19	8	22	9	25	11	11	12	12	12	13	13	13
	F	785	C	17	31	19	31	22	31	26	31	28	31	31	31	31	31	31	31	31	31	31	31
			O	4	11	6	16	8	21	10	27	12	30	14	14	16	16	18	18	18	20	20	20
	G	610	C	19	31	23	31	27	31	30		31	30	31	31	31	31	31	31	31	31	31	31
			O	6	17	9	25	12	31	15		18		21		24		28		31		31	

Flow to Close - Air to Close						
Size DN	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi		
				ATA5	ATA7	ATA9
250	A	1600	C		7	19
			O		1	2
	B	1450	C		8	23
			O		1	2
	C	1295	C		9	26
			O		1	3
	D	1110	C		11	30
			O		1	3
	E	935	C		12	31
			O		2	5
	F	785	C		15	31
			O		3	8
	G	610	C		17	31
			O		4	12

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: 17-4PH, DN 300 mm  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in bar	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 8 bar
T4 trim (Soft Seat)	For T < 95° C - P < 19 bar
	For T > 95° C but < 205° C - P < 10 bar

Flow to Close - Air to Open																					
Size DN	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar		Supply 40 psi 2.8 bar		Supply 45 psi 3.1 bar		Supply 50 psi 3.4 bar		Supply 55 psi 3.8 bar		Supply 60 psi 4.1 bar		Supply 65 psi 4.5 bar		Supply 70 psi 4.8 bar		Supply 75 psi 5.2 bar	
				ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9
				300	A	2400	C	4	12	5	14	6	16	7	18	7	21	8	21		
O		1					2	1	2	1	3	1	3	1	4						
B	2140	C	5		14	6	17	7	19	8	21	9	21	10	21	11	21	12	21	12	21
		O			1	1	2	1	2	1	3	1	4	1	4	2	5	2	6	2	6
C	1810	C	6		16	7	19	8	21	9	21	10	21	11	21	15	21	13	21	14	21
		O			1	1	2	1	3	1	3	1	4	2	5	2	6	2	7	2	7
D	1520	C	7		19	8	21	9	21	10	21	11	21	13	21	14	21	15	21	17	21
		O	1		2	1	3	1	4	2	5	2	6	2	7	3	8	3	9	3	10
E	1260	C	8		21	9	21	10	21	12	21	13	21	15	21	16	21	18	21	19	21
		O	1		3	1	4	2	6	2	7	3	9	4	10	4	12	5	13	5	15
F	1035	C	9		21	11	21	12	21	14	21	16	21	18	21	19	21	21	21	21	21
		O	1		4	2	7	3	9	4	11	5	14	6	16	7	19	8	20	8	8
G	805	C	11		21	13	21	15	21	17	21	19	21	21		21		21		21	
		O	2		7	4	11	5	15	7	19	8	21	9		11		12		13	

Flow to Close - Air to Close						
Size DN	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar		
				ATA5	ATA7	ATA9
300	A	2400	C		4	11
			O			1
	B	2140	C		4	13
			O			1
	C	1810	C		5	14
			O			1
	D	1520	C		6	17
			O			1
	E	1260	C		7	19
			O			1
F	1035	C		8	21	
		O			1	
G	805	C		10	21	
		O			2	

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: 17-4PH, DN 400  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in bar	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 8 bar
T4 trim (Soft Seat)	For T < 95° C - P < 13 bar
	For T > 95° C but < 205° C - P < 9 bar

Flow to Close - Air to Open																						
Size DN	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar		Supply 40 psi 2.8 bar		Supply 45 psi 3.1 bar		Supply 50 psi 3.4 bar		Supply 55 psi 3.8 bar		Supply 60 psi 4.1 bar		Supply 65 psi 4.5 bar		Supply 70 psi 4.8 bar		Supply 75 psi 5.2 bar		
				ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	
				400	A	4460	C	5	9	6	11	7	12	8	14	9	16	9	16			
O		1	1				1	1	2	1	2	1	2	1	3							
B	3975	C	6		11	7	13	8	15	9	16	11	16	12	16	13	16	14	16	15	16	
		O			1	1	1	1	2	1	2	1	3	2	3	2	4	2	4	2	4	2
C	3365	C	7		13	8	15	10	16	11	16	12	16	13	16	15	16	16	16	16	16	16
		O			1	1	1	1	2	1	3	2	3	2	4	2	4	3	5	3	6	
D	2825	C	8			9		11		12		14		15		16		16		16		16
		O	1			1		1		2		2		3		3		3		3		4
E	2340	C	9			11		12		14		16		16		16		16		16		16
		O	1			2		2		3		3		4		5		6		6		6
F	1925	C	11			13		15		16		16		16		16		16		16		16
		O	2			3		4		5		6		7		8		9		10		10
G	1495	C	13			15		16		16		16		16		16		16		16		16
		O	3			4		6		8		9		11		12		14		16		16

Flow to Close - Air to Close							
Size DN	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar			
				ATA5	ATA7	ATA9	ATA13
400	A	4460	C			4	8
			O				
	B	3975	C			6	10
			O				
	C	3365	C			6	11
			O				1
	D	2825	C			7	
			O				
	E	2340	C			8	
			O				1
	F	1925	C			10	
			O				1
	G	1495	C			11	
			O				2

C : Closed O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: 316 SS, DN 150 mm  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in bar	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 12 bar
T4 trim (Soft Seat)	For T < 95° C - P < 34 bar
	For T > 95° C but < 205° C - P < 17 bar

Flow to Close - Air to Open																					
Size DN	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar		Supply 40 psi 2.8 bar		Supply 45 psi 3.1 bar		Supply 50 psi 3.4 bar		Supply 55 psi 3.8 bar		Supply 60 psi 4.1 bar		Supply 65 psi 4.5 bar		Supply 70 psi 4.8 bar		Supply 75 psi 5.2 bar	
				ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7
				150	A	550	C	19	26	22	26	25	26	26	26	26	26	26	26	26	26
O	2	4	3				6	4	7	5		6		7							
B	510	C	22		26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
		O	2		4	3	7	4	7	6		7		7							
C	460	C	26		26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
		O	2		5	4	7	5		6		7									
D	405	C	26		26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
		O	3		6	4	8	6		8											
E	355	C	26		26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
		O	4		8	6	9	8		9											
F	315	C	26		26	26		26													
		O	6		10	8		10													
G	240	C	26		26	26		26													
		O	8		12	12		12													

Flow to Close - Air to Close						
Size DN	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar		
				ATA5	ATA7	ATA13
150	A	595	C	17	26	
			O	1	3	
	B	545	C	20	26	
			O	1	3	
	C	500	C	23	26	
			O	2	3	
	D	435	C	26	26	
			O	2	4	
	E	365	C	26	26	
			O	3	6	
	F	290	C	26	26	
			O	4	8	
	G	215	C	26	26	
			O	5	11	

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: 316 SS, DN 200 mm  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in bar	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 8 bar
T4 trim (Soft Seat)	For T < 95° C - P < 27 bar
	For T > 95° C but < 205° C - P < 14 bar

Flow to Close - Air to Open																					
Size DN	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar		Supply 40 psi 2.8 bar		Supply 45 psi 3.1 bar		Supply 50 psi 3.4 bar		Supply 55 psi 3.8 bar		Supply 60 psi 4.1 bar		Supply 65 psi 4.5 bar		Supply 70 psi 4.8 bar		Supply 75 psi 5.2 bar	
				ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7
				200	A	950	C	8	17	9	18	11	18	12	18	12	18				
O	1	2	1				3	2	4	2	5	3	6								
B	890	C	10		18	11	18	13	18	15	18	17	18	18		18		18		18	
		O	1		2	1	3	2	4	3	6	3	6	4		4		5		6	
C	800	C	11		18	13	18	15	18	17	18	18	18	18		18		18		18	
		O	1		2	2	4	2	5	3	6	4		4		5		6			
D	705	C	12		18	15	18	17	18	18	18	18	18	18		18		18			
		O	1		3	2	5	3	6	4		4		6		6					
E	620	C	14		18	17	18	18	18	18	18	18	18	18		18		18			
		O	2		4	3	7	4	7	5		6		7							
F	545	C	17		18	18	18	18	18	18	18	18	18	18		18					
		O	3		6	4	9	6		8		9									
G	420	C	18		18	18	18	18	18	18	18	18	18	18		18					
		O	4		9	7	11	9		11											

Flow to Close - Air to Close						
Size DN	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar		
				ATA5	ATA7	ATA13
200	A	950	C	7	14	
			O	1	1	
	B	890	C	9	18	
			O	1	1	
	C	800	C	10	18	
			O	1	2	
	D	705	C	11	18	
			O	1	2	
	E	620	C	13	18	
			O	1	3	
	F	545	C	15	18	
			O	2	4	
	G	420	C	18	18	
			O	3	6	

C : Closed O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: 316 SS, DN 250 mm  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in bar	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 8 bar
T4 trim (Soft Seat)	For T < 95° C - P < 23 bar
	For T > 95° C but < 205° C - P < 11 bar

Flow to Close - Air to Open																					
Size DN	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar		Supply 40 psi 2.8 bar		Supply 45 psi 3.1 bar		Supply 50 psi 3.4 bar		Supply 55 psi 3.8 bar		Supply 60 psi 4.1 bar		Supply 65 psi 4.5 bar		Supply 70 psi 4.8 bar		Supply 75 psi 5.2 bar	
				ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9
				250	A	1600	C	8	14	9	14	10	14								
O	1	3	2				5	2	6												
B	1450	C	9		14	11	14	12		14		14		14		14		14		14	
		O	1		3	2	6	2		3		4		4		5		6			
C	1295	C	11		14	12	14	14		14		14		14		14		14		14	
		O	1		4	2	6	3		3		4		5		6					
D	1110	C	12		14	14	14	14		14		14		14		14					
		O	2		5	3	6	4		5		6		6							
E	935	C	14		14	14	14	14		14		14		14							
		O	2		7	4	8	5		7		8									
F	785	C	14		14	14		14		14											
		O	4		9	6		8		9											
G	610	C	14		14	14		14		14											
		O	6		13	9		12		13											

Flow to Close - Air to Close						
Size DN	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar		
				ATA5	ATA7	ATA9
250	A	1600	C		7	14
			O		1	2
	B	1450	C		8	14
			O		1	2
	C	1295	C		9	14
			O		1	3
	D	1110	C		11	14
			O		1	3
	E	935	C		12	14
			O		2	5
	F	785	C		14	14
			O		3	8
	G	610	C		14	14
			O		4	12

C : Closed O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: 316 SS, DN 300 mm  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in bar	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 8 bar
T4 trim (Soft Seat)	For T < 95° C - P < 19 bar
	For T > 95° C but < 205° C - P < 10 bar

Flow to Close - Air to Open																						
Size DN	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar		Supply 40 psi 2.8 bar		Supply 45 psi 3.1 bar		Supply 50 psi 3.4 bar		Supply 55 psi 3.8 bar		Supply 60 psi 4.1 bar		Supply 65 psi 4.5 bar		Supply 70 psi 4.8 bar		Supply 75 psi 5.2 bar		
				ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	
				300	A	2400	C	4	12	5	12	6	12	7	12	7	12	8				
O		1					2	1	2	1	3	1	3	1								
B	2140	C	5		12	6	12	7	12	8	12	9		10		11		12				12
		O			1	1	2	1	2	1	3	1		1		2		2				2
C	1810	C	6		12	7	12	8	12	9	12	10		11		12		12				12
		O			1	1	2	1	3	1	3	1		2		2		2				2
D	1520	C	7		12	8	12	9	12	10		11		12		12		12				12
		O	1		2	1	3	1	3	2		2		2		3		3				3
E	1260	C	8		12	9	12	10	12	12		12		12		12		12				12
		O	1		3	1	4	2	4	2		3		4		4		4				4
F	1035	C	9		12	11	12	12		12		12		12		12		12				
		O	1		4	2	6	3		4		5		6		6		6				
G	805	C	11		12	12	12	12		12		12		12		12						
		O	2		7	4	8	5		7		8		8								

Flow to Close - Air to Close						
Size DN	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar		
				ATA5	ATA7	ATA9
300	A	2400	C		4	11
			O			1
	B	2140	C		4	12
			O			1
	C	1810	C		5	12
			O			1
	D	1520	C		6	12
			O			1
	E	1260	C		7	12
			O			1
	F	1035	C		8	12
			O			1
	G	805	C		10	12
			O			2

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: 316 SS, DN 400 mm  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in bar	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 8 bar
T4 trim (Soft Seat)	For T < 95° C - P < 13 bar
	For T > 95° C but < 205° C - P < 9 bar

Flow to Close - Air to Open																						
Size DN	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi		Supply 40 psi		Supply 45 psi		Supply 50 psi		Supply 55 psi		Supply 60 psi		Supply 65 psi		Supply 70 psi		Supply 75 psi		
				2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar		
				ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9
400	A	4460	C	5	9	6	11	7	12	8	12	9	12	9	12							
			O		1	1	1	1	2	1	2	1	2	1	3							
	B	3975	C	6	11	7	12	8	12	9	12	11	12	12	12	12			12			12
			O		1	1	1	1	2	1	2	1	3	2	3	2						
	C	3365	C	7	12	8	12	10	12	11	12	12	12	12	12	12			12			12
			O		1	1	1	1	2	1	3	2	3	2			2			3		
	D	2825	C	8		9		11		12		12		12		12			12			12
			O	1		1		1		2		2		3		3			3			3
	E	2340	C	9		11		12		12		12		12		12			12			12
			O	1		2		2		3		3		4		4			4			4
	F	1925	C	11		12		12		12		12		12		12			12			12
			O	2		3		4		5		6		6		6			6			6
	G	1495	C	12		12		12		12		12		12		12			12			12
			O	3		4		6		8		8										

Flow to Close - Air to Close							
Size DN	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi			
				2.4 bar			
				ATA5	ATA7	ATA9	ATA13
400	A	4460	C			4	8
			O				
	B	3975	C			6	10
			O				
	C	3365	C			6	11
			O				1
	D	2825	C				7
			O				
	E	2340	C				8
			O				1
	F	1925	C				10
			O				1
	G	1495	C				11
			O				2

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN



Shaft: Nitronic 50, DN 150 mm  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in bar	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 12 bar
T4 trim (Soft Seat)	For T < 95° C - P < 34 bar
	For T > 95° C but < 205° C - P < 17 bar

Flow to Close - Air to Open																						
Size DN	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar		Supply 40 psi 2.8 bar		Supply 45 psi 3.1 bar		Supply 50 psi 3.4 bar		Supply 55 psi 3.8 bar		Supply 60 psi 4.1 bar		Supply 65 psi 4.5 bar		Supply 70 psi 4.8 bar		Supply 75 psi 5.2 bar		
				ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	
				150	A	550	C	19	38	22	42	25	42	29	42	32	42	34				
O	2	4	3				6	4	8	5	10	6	11	7								
B	510	C	22		42	26	42	30	42	34	42	38			42				42			
		O	2		4	3	7	4	9	6	11	7		8		9			10			
C	460	C	26		42	30	42	35	42	39	42	42	42	42	42	42	42	42	42	42	42	42
		O	2		5	4	8	5	10	6	11	8		9		10		11				
D	405	C	29		42	34	42	39	42	42		42	42	42	42	42	42	42	42	42	42	42
		O	3		6	4	9	6	12	8		9		11		12						
E	355	C	33		42	40	42	42	42	42		42	42	42	42	42	42	42	42	42	42	42
		O	4		8	6	12	8	14	10		12		14								
F	315	C	40		42	42	42	42		42		42	42	42	42	42	42	42	42	42	42	42
		O	6		11	8	16	11		14		16										
G	240	C	42		42	42	42	42		42		42	42	42	42	42	42	42	42	42	42	42
		O	8		16	12	19	16		19												

Flow to Close - Air to Close									
Size DN	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar					
				ATA5	ATA7	ATA9	ATA13		
150	A	595	C	17	34				
			O	1	3				
	B	545	C	20	41				
			O	1	3				
	C	500	C	23	42				
			O	2	3				
	D	435	C	26	42				
			O	2	4				
	E	365	C	30	42				
			O	3	6				
	F	290	C	36	42				
			O	4	8				
	G	215	C	42	42				
			O	5	11				

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: Nitronic 50, DN 200 mm  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in bar	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 8 bar
T4 trim (Soft Seat)	For T < 95° C - P < 27 bar
	For T > 95° C but < 205° C - P < 14 bar

Flow to Close - Air to Open																						
Size DN	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar		Supply 40 psi 2.8 bar		Supply 45 psi 3.1 bar		Supply 50 psi 3.4 bar		Supply 55 psi 3.8 bar		Supply 60 psi 4.1 bar		Supply 65 psi 4.5 bar		Supply 70 psi 4.8 bar		Supply 75 psi 5.2 bar		
				ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	
				200	A	950	C	8	17	9	19	11	22	12	25	12	26					
O	1	2	1				3	2	4	2	5	3	6									
B	890	C	10		20	11	23	13	27	15	29	17	29	18	29	20	29	22	29	23		
		O	1		2	1	3	2	4	3	6	3	7	4	8	4	9	5	9	6		
C	800	C	11		22	13	27	15	29	17	29	19	29	21	29	23	29	25	27			
		O	1		2	2	4	2	5	3	7	4	8	4	9	5	9	6				
D	705	C	12		26	15	29	17	29	19	29	21	29	24	29	26		28	29	29		
		O	1		3	2	5	3	7	4	8	4	10	6	10	6		7		8		
E	620	C	14		29	17	29	20	29	22	29	25	29	28		29		29	29	29		
		O	2		4	3	7	4	9	5	11	6	12	8		9		10		11		
F	545	C	17		29	20	29	23	29	26	29	29		29		29		29	29	29		
		O	3		6	4	9	6	12	8	14	9		10		12		13		14		
G	420	C	20		29	24	29	27	29	29	29	29		29		29		29	29	29		
		O	4		9	7	13	9	18	11	18	13		15		18		18		18		

Flow to Close - Air to Close							
Size DN	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi 2.4 bar			
				ATA5	ATA7	ATA9	ATA13
200	A	950	C	7	14		
			O	1	1		
	B	890	C	9	18		
			O	1	1		
	C	800	C	10	20		
			O	1	2		
	D	705	C	11	23		
			O	1	2		
	E	620	C	13	26		
			O	1	3		
	F	545	C	15	29		
			O	2	4		
G	420	C	18	29			
		O	3	6			

C : Closed O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: Nitronic 50, DN 250 mm  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in bar	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 8 bar
T4 trim (Soft Seat)	For T < 95° C - P < 23 bar
	For T > 95° C but < 205° C - P < 11 bar

Flow to Close - Air to Open																					
Size DN	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi		Supply 40 psi		Supply 45 psi		Supply 50 psi		Supply 55 psi		Supply 60 psi		Supply 65 psi		Supply 70 psi		Supply 75 psi	
				2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
				ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9
A	1600	C	C	8	21	9	23	10	23												
			O	1	3	2	5	2	7												
B	1450	C	C	9	23	11	23	12	23	14	23	16		18		19		21		22	
			O	1	3	2	6	2	7	3	9	4		4		5		6		7	
C	1295	C	C	11	23	12	23	14	23	16	23	18		20		22		23		23	
			O	1	4	2	6	3	8	3	9	4		5		6		7		7	
D	1110	C	C	12	23	14	23	16	23	19		21		23		23		23		23	
			O	2	5	3	8	4	10	5		6		7		8		9		10	
E	935	C	C	14	23	16	23	19	23	21		23		23		23		23		23	
			O	2	7	4	11	5	12	7		8		9		11		12			
F	785	C	C	17	23	19	23	22		23		23		23		23		23		23	
			O	4	11	6	15	8		10		12		14		15					
G	610	C	C	19	23	23	23	23		23		23		23		23		23		23	
			O	6	17	9	20	12		15		18		20							

Flow to Close - Air to Close							
Size DN	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi			
				2.4 bar			
				ATA5	ATA7	ATA9	ATA13
A	1600	C	C		7	19	
			O		1	2	
B	1450	C	C		8	23	
			O		1	2	
C	1295	C	C		9	23	
			O		1	3	
D	1110	C	C		11	23	
			O		1	3	
E	935	C	C		12	23	
			O		2	5	
F	785	C	C		15	23	
			O		3	8	
G	610	C	C		17	23	
			O		4	12	

C : Closed O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: Nitronic 50, DN 300 mm  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in bar	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 8 bar
T4 trim (Soft Seat)	For T < 95° C - P < 19 bar
	For T > 95° C but < 205° C - P < 10 bar

Flow to Close - Air to Open																									
Size DN	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi		Supply 40 psi		Supply 45 psi		Supply 50 psi		Supply 55 psi		Supply 60 psi		Supply 65 psi		Supply 70 psi		Supply 75 psi					
				2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar					
				ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9		
300	A	2400	C	4	12	5	14	6	16	7	18	7	20	8	20										
			O		1	0	2	1	2	1	3	1	3	1	4										
	B	2140	C	5	14	6	17	7	19	8	20	9	20	10	20	11	20	12			12				
			O		1	1	2	1	2	1	3	1	4	1	4	2	5	2					2		
	C	1810	C	6	16	7	19	8	20	9	20	10	20	11	20	12			13			14			
			O		1	1	2	1	3	1	3	1	4	2	5	2			2				2		
	D	1520	C	7	19	8	20	9	20	10	20	11	20	13			14			15			17		
			O		1	2	1	3	1	4	2	5	2	6	2			3			3			3	
	E	1260	C	8	20	9	20	10	20	12	20	13	20	15			16			18			19		
			O		1	3	1	4	2	6	2	7	3	8	4			4			5			5	
	F	1035	C	9	20	11	20	12	20	14	20	16			18			19			20			20	
			O		1	4	2	7	3	9	4	10	5			6			7			8			8
	G	805	C	11	20	13	20	15	20	17			19			20			20			20			20
			O		2	7	4	11	5	14	7			8			9			11			12		

Flow to Close - Air to Close						
Size DN	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi		
				ATA5	ATA7	ATA9
300	A	2400	C		4	11
			O			1
	B	2140	C		4	13
			O			1
	C	1810	C		5	14
			O			1
	D	1520	C		6	17
			O			1
	E	1260	C		7	19
			O			2
	F	1035	C		8	20
			O			3
	G	805	C		10	20
			O			5

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: Nitronic 50, DN 400 mm  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in bar	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 8 bar
T4 trim (Soft Seat)	For T < 95° C - P < 13 bar
	For T > 95° C but < 205° C - P < 9 bar

Flow to Close - Air to Open																						
Size DN	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi		Supply 40 psi		Supply 45 psi		Supply 50 psi		Supply 55 psi		Supply 60 psi		Supply 65 psi		Supply 70 psi		Supply 75 psi		
				2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar		
				ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9
400	A	4460	C	5	9	6	11	7	12	8	14	9	16	9	16							
			O		1	1	1	1	2	1	2	1	2	1	3							
	B	3975	C	6	11	7	13	8	15	9	16	11	16	12	16	13	16	14	16	15	16	
			O		1	1	1	1	2	1	2	1	3	2	3	2	4	2	4	2	4	2
	C	3365	C	7	13	8	15	10	16	11	16	12	16	13	16	15	16	16	16	16	16	
			O		1	1	1	1	2	1	3	2	3	2	4	2	4	3	4	3		
	D	2825	C	8		9		11		12		14		15		16		16		16		16
			O	1		1		1		2		2		3		3		3		3		4
	E	2340	C	9		11		12		14		16		16		16		16		16		16
			O	1		2		2		3		3		4		5		6		6		6
	F	1925	C	11		13		15		16		16		16		16		16		16		16
			O	2		3		4		5		6		7		8		9		9		10
	G	1495	C	13		15		16		16		16		16		16		16		16		16
			O	3		4		6		8		9		11		12		13				

Flow to Close - Air to Close							
Size DN	ATA Adjust	C <sub>v</sub>	Position	Supply 35 psi			
				2.4 bar			
				ATA5	ATA7	ATA9	ATA13
400	A	4460	C			4	8
			O				
	B	3975	C			6	10
			O				
	C	3365	C			6	11
			O				1
	D	2825	C			7	
			O				
	E	2340	C			8	
			O				1
	F	1925	C			10	
			O				1
	G	1495	C			11	
			O				2

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

# Metric Units Lo-dB Trim

Allowable Pressure  
Drop Tables

30000 Series Varimax

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## Metric Units

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Shaft: 17-4PH, DN 150 mm and 200 mm, Lo dB Valves

Seat: Metal Seat and Soft Seat ( T1 through T4 trims)

Seat Leakage: Class IV and Class VI

Range: 7-25 psi

Maximum Pressure Drop in bar	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 12 bar
T4 trim (Soft Seat)	For T < 95° C - P < 34 bar
	For T > 95° C but < 205° C - P < 17 bar

Flow to Open - Air to Close																								
Size DN	ATA Adjust	C <sub>v</sub>		Position	Supply		Supply		Supply		Supply		Supply		Supply		Supply		Supply					
					35 psi		40 psi		45 psi		50 psi		55 psi		60 psi		65 psi		70 psi		75 psi			
		Std. Cap.			High Cap.		2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
		ATA5	ATA7		ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7		
150	A	210	260	C	4	12	8	18	11	25	14	32	18	39	21	46	24	52	28		31			
				O	4	12	8	18	11	25	14	32	18	39	21	46	24	52	28		31			
	B	190	220	C	6	14	10	22	14	30	18	39	22	47	26	52	30		34		38			
				O	6	14	10	22	14	30	18	39	22	47	26	52	30		34		38			
	C	170	185	C	7	17	12	26	16	35	21	45	26	52	30		35		39		44			
				O	7	17	12	26	16	35	21	45	26	52	30		35		39		44			
	D	145	145	C	8	19	13	30	19	40	24	51	29	52	34		39		45		50			
				O	8	19	13	30	19	40	24	51	29	52	34		39		45		50			
	E	125	125	C	10	22	16	35	22	47	28	52	34		40		46		52					
				O	10	22	16	35	22	47	28	52	34		40		46		52					
	F	105	105	C	12	27	19	41	26	52	33		41		48		52							
				O	12	27	19	41	26	52	33		41		48		52							
	G	85	85	C	14	32	23	49	31	52	40		48		52									
				O	14	32	23	49	31	52	40		48		52									

Maximum Pressure Drop in bar	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 8 bar
T4 trim (Soft Seat)	For T < 95° C - P < 27 bar
	For T > 95° C but < 205° C - P < 14 bar

Flow to Open - Air to Close																								
Size DN	ATA Adjust	C <sub>v</sub>		Position	Supply		Supply		Supply		Supply		Supply		Supply		Supply		Supply					
					35 psi		40 psi		45 psi		50 psi		55 psi		60 psi		65 psi		70 psi		75 psi			
		Std. Cap.			High Cap.		2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
		ATA5	ATA7		ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7		
200	A	360	435	C	1	4	3	7	4	10	6	13	7	16	8	19	10	22	11	25	13	28		
				O	1	4	3	7	4	10	6	13	7	16	8	19	10	22	11	25	13	28		
	B	325	370	C	2	6	3	9	5	12	7	16	9	20	10	23	12	27	14	30	16	33		
				O	2	6	3	9	5	12	7	16	9	20	10	23	12	27	14	30	16	33		
	C	290	310	C	2	7	4	10	6	14	8	19	10	23	12	27	14	31	16	35	18	39		
				O	2	7	4	10	6	14	8	19	10	23	12	27	14	31	16	35	18	39		
	D	250	250	C	3	8	5	12	7	17	10	21	12	26	14	30	16	35	19	40	21	41		
				O	3	8	5	12	7	17	10	21	12	26	14	30	16	35	19	40	21	41		
	E	215	215	C	3	9	6	14	9	19	11	25	14	30	17	35	19	41	22	41	24			
				O	3	9	6	14	9	19	11	25	14	30	17	35	19	41	22	41	24			
	F	180	180	C	4	11	8	17	11	23	14	30	17	36	20	41	23		26		29			
				O	4	11	8	17	11	23	14	30	17	36	20	41	23		26		29			
	G	145	145	C	6	13	9	20	13	28	17	35	20	41	24		27		31		35			
				O	6	13	9	20	13	28	17	35	20	41	24		27		31		35			

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN



Shaft: 17-4PH, DN 250 mm and 300 mm, Lo dB Valves

Seat: Metal Seat and Soft Seat ( T1 through T4 trims)

Seat Leakage: Class IV and Class VI

Range: 7-25 psi

Maximum Pressure Drop in bar	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 8 bar
T4 trim (Soft Seat)	For T < 95° C - P < 23 bar
	For T > 95° C but < 205° C - P < 11 bar

Flow to Open - Air to Close																						
Size DN	ATA Adjust	C <sub>v</sub>		Position	Supply		Supply		Supply		Supply		Supply		Supply		Supply		Supply			
		Std. Cap.	High Cap.		35 psi		40 psi		45 psi		50 psi		55 psi		60 psi		65 psi		70 psi		75 psi	
					2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
					ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9
250	A	620	745	C	1	6	3	10	4	14	6	18	7	22	8	26	10	29	11	31	13	
				O	1	6	3	10	4	14	6	18	7	22	8	26	10	29	11	31	13	
	B	560	645	C	2	8	4	12	5	17	7	21	9	26	10	31	12	31	14		15	
				O	2	8	4	12	5	17	7	21	9	26	10	31	12	31	14		15	
	C	495	535	C	2	9	4	14	6	20	8	25	10	30	12	31	14		16		18	
				O	2	9	4	14	6	20	8	25	10	30	12	31	14		16		18	
	D	435	435	C	3	11	5	17	7	22	10	28	12	31	14		16		18		20	
				O	3	11	5	17	7	22	10	28	12	31	14		16		18		20	
	E	370	370	C	4	12	6	19	9	26	11	31	13		16		19		21		23	
				O	4	12	6	19	9	26	11	31	13		16		19		21		23	
	F	310	310	C	4	15	8	23	10	31	13		17		19		22		26		28	
				O	4	15	8	23	11	31	13		17		19		22		26		28	
	G	250	250	C	6	18	9	27	13	31	16		20		23		27		30		31	
				O	6	18	9	27	13	31	16		20		23		27		30		31	

Maximum Pressure Drop in bar	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 8 bar
T4 trim (Soft Seat)	For T < 95° C - P < 23 bar
	For T > 95° C but < 205° C - P < 11 bar

Flow to Open - Air to Close																						
Size DN	ATA Adjust	C <sub>v</sub>		Position	Supply		Supply		Supply		Supply		Supply		Supply		Supply		Supply			
		Std. Cap.	High Cap.		35 psi		40 psi		45 psi		50 psi		55 psi		60 psi		65 psi		70 psi		75 psi	
					2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
					ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9
300	A	1000	1200	C		3	1	5	2	8	3	10	3	12	4	14	5	16	6	18	7	20
				O		3	1	5	2	8	3	10	3	12	4	14	5	16	6	18	7	20
	B	900	1035	C	1	4	2	7	2	9	3	12	4	14	6	17	6	19	7	21	8	
				O	1	4	2	7	2	9	3	12	4	14	6	17	6	19	7	21	8	
	C	800	865	C	1	5	2	8	3	11	4	13	5	17	6	19	7	21	9		10	
				O	1	5	2	8	3	11	4	13	5	17	6	19	7	21	9		10	
	D	700	700	C	1	6	2	9	4	12	5	16	6	19	7	21	9		10		11	
				O	1	6	2	9	4	12	5	16	6	19	7	21	9		10		11	
	E	600	600	C	2	7	3	10	4	14	6	18	7	21	9		10		11		13	
				O	2	7	3	10	4	14	6	18	7	21	9		10		11		13	
	F	500	500	C	2	8	4	12	6	17	7	21	9		10		12		14		16	
				O	2	8	4	12	6	17	7	21	9		10		12		14		16	
	G	400	400	C	3	10	5	15	7	20	9	21	11		12		14		17		18	
				O	3	10	5	15	7	20	9	21	11		12		14		17		18	

C : Closed O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: 17-4PH, DN 400 mm, Lo dB Valves  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in bar	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 8 bar
T4 trim (Soft Seat)	For T < 95° C - P < 13 bar
	For T > 95° C but < 205° C - P < 9 bar

Flow to Open - Air to Close																								
Size DN	ATA Adjust	C <sub>v</sub>		Position	Supply		Supply Pressure		Supply		Supply		Supply		Supply		Supply		Supply Pressure					
					35 psi		40 psi		45 psi		50 psi		55 psi		60 psi		65 psi		70 psi		75 psi			
		Std. Cap.			High Cap.		2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
		ATA9	ATA13		ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13		
400	A	1750	2100	C	1	2	2	4	3	6	4	7	5	9	6	11	7	12	8	14	8	16		
				O	1	2	2	4	3	6	4	7	5	9	6	11	7	12	8	14	8	16		
	B	1575	1810	C	1	3	2	5	3	7	4	9	6	11	7	13	8	15	9	16	10			
				O	1	3	2	5	3	7	4	9	6	11	7	13	8	15	9	16	10			
	C	1400	1510	C	2	4	3	6	4	8	6	11	7	13	8	16	9	16	11		12			
				O	2	4	3	6	4	8	6	11	7	13	8	16	9	16	11		12			
	D	1225	1225	C	2		3		5		6		8		9		11		12		13			
				O	2		3		5		6		8		9		11		12		13			
	E	1050	1050	C	2		4		6		7		9		11		12		14		16			
				O	2		4		6		7		9		11		12		14		16			
	F	875	875	C	3		5		7		9		11		13		15		16					
				O	3		5		7		9		11		13		15		16					
	G	700	700	C	4		6		8		11		13		16		16							
				O	4		6		8		11		13		16		16							

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: 316 SS, DN 150 mm and 200 mm, Lo dB Valves

Seat: Metal Seat and Soft Seat ( T1 through T4 trims)

Seat Leakage: Class IV and Class VI

Range: 7-25 psi

Maximum Pressure Drop in bar	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 12 bar
T4 trim (Soft Seat)	For T < 95° C - P < 34 bar
	For T > 95° C but < 205° C - P < 17 bar

Flow to Open - Air to Close																						
Size DN	ATA Adjust	C <sub>v</sub>		Position	Supply		Supply		Supply		Supply		Supply		Supply		Supply		Supply			
		Std. Cap.	High Cap.		35 psi		40 psi		45 psi		50 psi		55 psi		60 psi		65 psi		70 psi		75 psi	
					2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
					ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7
150	A	210	260	C	4	12	8	18	11	23	14		18		21		23					
				O	4	12	8	18	11	23	14		18		21		23					
	B	190	220	C	6	14	10	22	14	23	18		22		23							
				O	6	14	10	22	14	23	18		22		23							
	C	170	185	C	7	17	12	23	16		21		23									
				O	7	17	12	23	16		21		23									
	D	145	1485	C	8	19	13	23	19		23											
				O	8	19	13	23	19		23											
	E	125	125	C	10	22	16	23	22		23											
				O	10	22	16	23	22		23											
	F	105	105	C	12	23	19		23													
				O	12	23	19		23													
	G	85	85	C	14	23	23		23													
				O	14	23	23		23													

Maximum Pressure Drop in bar	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 8 bar
T4 trim (Soft Seat)	For T < 95° C - P < 27 bar
	For T > 95° C but < 205° C - P < 14 bar

Flow to Open - Air to Close																						
Size DN	ATA Adjust	C <sub>v</sub>		Position	Supply		Supply		Supply		Supply		Supply		Supply		Supply		Supply			
		Std. Cap.	High Cap.		35 psi		40 psi		45 psi		50 psi		55 psi		60 psi		65 psi		70 psi		75 psi	
					2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
					ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7
200	A	360	435	C	1	4	3	7	4	10	6	13	7	16	8	16	10		11		13	
				O	1	4	3	7	4	10	6	13	7	16	8	16	10		11		13	
	B	325	370	C	2	6	3	9	5	12	7	16	9	16	10		12		14		16	
				O	2	6	3	9	5	12	7	16	9	16	10		12		14		16	
	C	290	310	C	2	7	4	10	6	14	8	16	10		12		14		16		16	
				O	2	7	4	10	6	14	8	16	10		12		14		16		16	
	D	250	250	C	3	8	5	12	7	16	10		12		14		16					
				O	3	8	5	12	7	16	10		12		14		16					
	E	215	215	C	3	9	6	14	9	16	11		14		16							
				O	3	9	6	14	9	16	11		14		16							
	F	180	180	C	4	11	8	16	11		14		16									
				O	4	11	8	16	11		14		16									
	G	145	145	C	6	13	9	16	13		16											
				O	6	13	9	16	13		16											

C : Closed O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: 316 SS, DN 250 mm and 300 mm, Lo dB Valves

Seat: Metal Seat and Soft Seat ( T1 through T4 trims)

Seat Leakage: Class IV and Class VI

Range: 7-25 psi

Maximum Pressure Drop in bar	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 8 bar
T4 trim (Soft Seat)	For T < 95° C - P < 23 bar
	For T > 95° C but < 205° C - P < 11 bar

Flow to Open - Air to Close																						
Size DN	ATA Adjust	C <sub>v</sub>		Position	Supply		Supply		Supply		Supply		Supply		Supply		Supply		Supply			
		Std. Cap.	High Cap.		35 psi		40 psi		45 psi		50 psi		55 psi		60 psi		65 psi		70 psi		75 psi	
					2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
					ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9
250	A	620	745	C	1	6	3	10	4	13	6		7		8		10		11		13	
				O	1	6	3	10	4	13	6		7		8		10		11		13	
	B	560	645	C	2	8	4	12	5	13	7		9		10		12		13			
				O	2	8	4	12	5	13	7		9		10		12		13			
	C	495	535	C	2	9	4	13	6		8		10		12		13					
				O	2	9	4	13	6		8		10		12		13					
	D	435	435	C	3	11	5	13	7		10		12		13							
				O	3	11	5	13	7		10		12		13							
	E	370	370	C	4	12	6	13	9		11		13									
				O	4	12	6	13	9		11		13									
	F	310	310	C	4	13	8		10		13											
				O	4	13	8		10		13											
	G	250	250	C	6	13	9		13		13											
				O	6	13	9		13		13											

Maximum Pressure Drop in bar	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 8 bar
T4 trim (Soft Seat)	For T < 95° C - P < 19 bar
	For T > 95° C but < 205° C - P < 10 bar

Flow to Open - Air to Close																						
Size DN	ATA Adjust	C <sub>v</sub>		Position	Supply		Supply		Supply		Supply		Supply		Supply		Supply		Supply			
		Std. Cap.	High Cap.		35 psi		40 psi		45 psi		50 psi		55 psi		60 psi		65 psi		70 psi		75 psi	
					2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
					ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9
300	A	1000	1200	C		3	1	5	2	8	3	10	3	11	4		5		6		7	
				O		3	1	5	2	8	3	10	3	11	4		5		6		7	
	B	900	1035	C	1	4	2	7	2	9	3	11	4		6		6		7		8	
				O	1	4	2	7	2	9	3	11	4		6		6		7		8	
	C	800	865	C	1	5	2	8	3	11	4	11	5		6		7		9		10	
				O	1	5	2	8	3	11	4	11	5		6		7		9		10	
	D	700	700	C	1	6	2	9	4	11	5		6		7		9		10		11	
				O	1	6	2	9	4	11	5		6		7		9		10		11	
	E	600	600	C	2	7	3	10	4	11	6		7		9		10		11			
				O	2	7	3	10	4	11	6		7		9		10		11			
	F	500	500	C	2	8	4	11	6		7		9		10		11					
				O	2	8	4	11	6		7		9		10		11					
	G	400	400	C	3	10	5	11	7		9		11		11							
				O	3	10	5	11	7		9		11		11							

C : Closed O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: 316 SS, DN 400 mm, Lo dB Valves  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in bar	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 8 bar
T4 trim (Soft Seat)	For T < 95° C - P < 13 bar
	For T > 95° C but < 205° C - P < 9 bar

Flow to Open - Air to Close																						
Size DN	ATA Adjust	C <sub>v</sub>		Position	Supply		Supply		Supply		Supply		Supply		Supply		Supply		Supply			
		Std. Cap.	High Cap.		35 psi		40 psi		45 psi		50 psi		55 psi		60 psi		65 psi		70 psi		75 psi	
					2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
		ATA9	ATA13		ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13
400	A	1750	2100	C	1	2	2	4	3	6	4	7	5	9	6	11	7	11	8		8	
				O	1	2	2	4	3	6	4	7	5	9	6	11	7	11	8		8	
	B	1575	1810	C	1	3	2	5	3	7	4	9	6	11	7	11	8		9		10	
				O	1	3	2	5	3	7	4	9	6	11	7	11	8		9		10	
	C	1400	1510	C	2	4	3	6	4	8	6	11	7	11	8		9		11		11	
				O	2	4	3	6	4	8	6	11	7	11	8		9		11		11	
	D	1225	1225	C	2		3		5		6		8		9		11		11			
				O	2		3		5		6		8		9		11		11			
	E	1050	1050	C	2		4		6		7		9		11		11					
				O	2		4		6		7		9		11		11					
	F	875	875	C	3		5		7		9		11									
				O	3		5		7		9		11									
	G	700	700	C	4		6		8		11		11									
				O	4		6		8		11		11									

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: Nitronic 50, DN 150 mm and 200 mm, Lo dB Valves

Seat: Metal Seat and Soft Seat ( T1 through T4 trims)

Seat Leakage: Class IV and Class VI

Range: 7-25 psi

Maximum Pressure Drop in bar																					
For the T1 and T4 trim, the maximum values must be limited to:																					
T1 trim (Stainless St. / Stainless St.)														P < 12 bar							
T4 trim (Soft Seat)														For T < 95° C - P < 34 bar							
														For T > 95° C but < 205° C - P < 17 bar							

Flow to Open - Air to Close																						
Size DN	ATA Adjust	C <sub>v</sub>		Position	Supply		Supply		Supply		Supply		Supply		Supply		Supply		Supply			
		Std. Cap.	High Cap.		35 psi		40 psi		45 psi		50 psi		55 psi		60 psi		65 psi		70 psi		75 psi	
					2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
					ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7
150	A	210	260	C	4	12	8	18	11	25	14	32	18	39	21	39	24		28		31	
				O	4	12	8	18	11	25	14	32	18	39	21	39	24		28		31	
	B	190	220	C	6	14	10	22	14	30	18	39	22	39	26		30		34		38	
				O	6	14	10	22	14	30	18	39	22	39	26		30		34		38	
	C	170	185	C	7	17	12	26	16	35	21	39	26		30		35		39		39	
				O	7	17	12	26	16	35	21	39	26		30		35		39		39	
	D	145	145	C	8	19	13	30	19	39	24		29		34		39					
				O	8	19	13	30	19	39	24		29		34		39					
	E	125	125	C	10	22	16	35	22	39	28		34		39							
				O	10	22	16	35	22	39	28		34		39							
	F	105	105	C	12	27	19	39	26		33		39									
				O	12	27	19	39	26		33		39									
	G	85	85	C	14	32	23	39	31		39											
				O	14	32	23	39	31		39											

Maximum Pressure Drop in bar																					
For the T1 and T4 trim, the maximum values must be limited to:																					
T1 trim (Stainless St. / Stainless St.)														P < 8 bar							
T4 trim (Soft Seat)														For T < 95° C - P < 27 bar							
														For T > 95° C but < 205° C - P < 14 bar							

Flow to Open - Air to Close																						
Size DN	ATA Adjust	C <sub>v</sub>		Position	Supply		Supply		Supply		Supply		Supply		Supply		Supply		Supply			
		Std. Cap.	High Cap.		35 psi		40 psi		45 psi		50 psi		55 psi		60 psi		65 psi		70 psi		75 psi	
					2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
					ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7
200	A	360	435	C	1	4	3	7	4	10	6	13	7	16	8	19	10	22	11	25	13	29
				O	1	4	3	7	4	10	6	13	7	16	8	19	10	22	11	25	13	29
	B	325	370	C	2	6	3	9	5	12	7	16	9	20	10	23	12	27	14	28	16	
				O	2	6	3	9	5	12	7	16	9	20	10	23	12	27	14	28	16	
	C	290	310	C	2	7	4	10	6	14	8	19	10	23	12	27	14	28	16		18	
				O	2	7	4	10	6	14	8	19	10	23	12	27	14	28	16		18	
	D	250	250	C	3	8	5	12	7	17	10	21	12	26	14	28	16		19		21	
				O	3	8	5	12	7	17	10	21	12	26	14	28	16		19		21	
	E	215	215	C	3	9	6	14	9	19	11	25	14	28	17		19		22		24	
				O	3	9	6	14	9	19	11	25	14	28	17		19		22		24	
	F	180	180	C	4	11	8	17	11	23	14	28	17		20		23		26		28	
				O	4	11	8	17	11	23	14	28	17		20		23		26		28	
	G	145	145	C	6	13	9	20	13	28	17		20		24		27		28			
				O	6	13	9	20	13	28	17		20		24		27		28			

C : Closed O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: Nitronic 50, DN 250 mm and 300 mm, Lo dB Valves

Seat: Metal Seat and Soft Seat ( T1 through T4 trims)

Seat Leakage: Class IV and Class VI

Range: 7-25 psi

Maximum Pressure Drop in bar	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 8 bar
T4 trim (Soft Seat)	For T < 95° C - P < 23 bar
	For T > 95° C but < 205° C - P < 11 bar

Flow to Open - Air to Close																						
Size DN	ATA Adjust	C <sub>v</sub>		Position	Supply		Supply		Supply		Supply		Supply		Supply		Supply		Supply			
		Std. Cap.	High Cap.		35 psi		40 psi		45 psi		50 psi		55 psi		60 psi		65 psi		70 psi		75 psi	
					2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
					ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9
250	A	620	745	C	1	6	3	10	4	14	6	18	7	21	8		10		11		13	
				O	1	6	3	10	4	14	6	18	7	21	8		10		11		13	
	B	560	645	C	2	8	4	12	5	17	7	21	9	21	10		12		14		15	
				O	2	8	4	12	5	17	7	21	9	21	10		12		14		15	
	C	495	535	C	2	9	4	14	6	20	8	21	10		12		14		16		18	
				O	2	9	4	14	6	20	8	21	10		12		14		16		18	
	D	435	435	C	3	11	5	17	7	21	10		12		14		16		18		20	
				O	3	11	5	17	7	21	10		12		14		16		18		20	
	E	370	370	C	4	12	6	19	9	21	11		13		16		19		21		21	
				O	4	12	6	19	9	21	11		13		16		19		21		21	
	F	310	310	C	4	15	8	21	10		13		17		19		21					
				O	4	15	8	21	10		13		17		19		21					
	G	250	250	C	6	18	9	21	13		16		20		21							
				O	6	18	9	21	13		16		20		21							

Maximum Pressure Drop in bar	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 8 bar
T4 trim (Soft Seat)	For T < 95° C - P < 19 bar
	For T > 95° C but < 205° C - P < 10 bar

Flow to Open - Air to Close																						
Size DN	ATA Adjust	C <sub>v</sub>		Position	Supply		Supply		Supply		Supply		Supply		Supply		Supply		Supply			
		Std. Cap.	High Cap.		35 psi		40 psi		45 psi		50 psi		55 psi		60 psi		65 psi		70 psi		75 psi	
					2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
					ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9
300	A	1000	1200	C		3	1	5	2	8	3	10	3	12	4	14	5	16	6	18	7	19
				O		3	1	5	2	8	3	10	3	12	4	14	5	16	6	18	7	19
	B	900	1035	C	1	4	2	7	2	9	3	12	4	14	6	17	6	19	7		8	
				O	1	4	2	7	2	9	3	12	4	14	6	17	6	19	7		8	
	C	800	865	C	1	5	2	8	3	11	4	13	5	17	6	19	7		9		10	
				O	1	5	2	8	3	11	4	13	5	17	6	19	7		9		10	
	D	700	700	C	1	6	2	9	4	12	5	16	6	19	7		9		10		11	
				O	1	6	2	9	4	12	5	16	6	19	7		9		10		11	
	E	600	600	C	2	7	3	10	4	14	6	18	7	19	9		10		11		13	
				O	2	7	3	10	4	14	6	18	7	19	9		10		11		13	
	F	500	500	C	2	8	4	12	6	17	7	19	9		10		12		14		16	
				O	2	8	4	12	6	17	7	19	9		10		12		14		16	
	G	400	400	C	3	10	5	15	7	19	9		11		12		14		17		18	
				O	3	10	5	15	7	19	9		11		12		14		17		18	

C : Closed O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: Nitronic 50, DN 400 mm, Lo dB Valves  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in bar	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 8 bar
T4 trim (Soft Seat)	For T <95° C - P < 13 bar
	For T > 95° C but < 205° C - P < 9 bar

Flow to Open - Air to Close																								
Size DN	ATA Adjust	C <sub>v</sub>		Position	Supply		Supply		Supply		Supply		Supply		Supply		Supply		Supply					
					35 psi		40 psi		45 psi		50 psi		55 psi		60 psi		65 psi		70 psi		75 psi			
		Std. Cap.			High Cap.		2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
		ATA9	ATA13		ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13		
400	A	1750	2100	C	1	2	2	4	3	6	4	7	5	9	6	11	7	12	8	14	8	16		
				O	1	2	2	4	3	6	4	7	5	9	6	11	7	12	8	14	8	16		
	B	1575	1810	C	1	3	2	5	3	7	4	9	6	11	7	13	8	15	9	16	10			
				O	1	3	2	5	3	7	4	9	6	11	7	13	8	15	9	16	10			
	C	1400	1510	C	2	4	3	6	4	8	6	11	7	13	8	16	9	16	11		12			
				O	2	4	3	6	4	8	6	11	7	13	8	16	9	16	11		12			
	D	1225	1225	C	2		3		5		6		8		9		11		12		13			
				O	2		3		5		6		8		9		11		12		13			
	E	1050	1050	C	2		4		6		7		9		11		12		14		16			
				O	2		4		6		7		9		11		12		14		16			
	F	875	875	C	3		5		7		9		11		13		15		16					
				O	3		5		7		9		11		13		15		16					
	G	700	700	C	4		6		8		11		13		16		16							
				O	4		6		8		11		13		16		16							

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN



Shaft: 17-4PH, DN 150 mm and 200 mm, Lo dB Valves

Seat: Metal Seat and Soft Seat ( T1 through T4 trims)

Seat Leakage: Class IV and Class VI

Range: 7-25 psi

Maximum Pressure Drop in bar	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 12 bar
T4 trim (Soft Seat)	For T < 95° C - P < 34 bar
	For T > 95° C but < 205° C - P < 17 bar

Flow to Close - Air to Open																								
Size DN	ATA Adjust	C <sub>v</sub>		Position	Supply		Supply		Supply		Supply		Supply		Supply		Supply		Supply					
					35 psi		40 psi		45 psi		50 psi		55 psi		60 psi		65 psi		70 psi		75 psi			
		Std. Cap.			High Cap.		2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
		ATA5	ATA7		ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7		
150	A	210	260	C	19	38	22	45	25	52	29	52	32	52	35	52	39	52	42		45			
				O	7	13	10	20	13	27	17	34	20	41	23	48	27	52	30		33			
	B	190	220	C	22	46	26	52	30	52	34	52	38	52	42	52	46		50		52			
				O	8	16	12	24	16	32	20	41	24	49	28	52	32		36		40			
	C	170	185	C	26	52	30	52	35	52	39	52	44	52	49		52		52		52			
				O	9	19	14	28	18	37	23	47	28	52	32		37		41		46			
	D	145	145	C	29	52	34	52	39	52	45	52	50		52		52		52		52			
				O	10	21	16	32	21	42	26	52	31		36		41		47		52			
	E	125	125	C	33	52	40	52	46	52	52	52	52		52		52		52					
				O	12	24	18	37	24	49	30		36		42		48		52					
	F	105	105	C	40	52	47	52	52	52	52		52		52									
				O	14	29	21	43	28	52	36		42		50		52							
	G	85	85	C	47	52	52	52	52	52	52		52		52									
				O	17	34	25	51	33	52	42		50		52									

Maximum Pressure Drop in bar	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 8 bar
T4 trim (Soft Seat)	For T < 95° C - P < 27 bar
	For T > 95° C but < 205° C - P < 14 bar

Flow to Close - Air to Open																								
Size DN	ATA Adjust	C <sub>v</sub>		Position	Supply		Supply		Supply		Supply		Supply		Supply		Supply		Supply					
					35 psi		40 psi		45 psi		50 psi		55 psi		60 psi		65 psi		70 psi		75 psi			
		Std. Cap.			High Cap.		2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
		ATA5	ATA7		ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7		
200	A	360	435	C	8	17	9	19	11	22	12	25	14	28	15	31	17	34	18	37	19	40		
				O	3	6	4	9	6	12	7	14	9	18	10	21	11	23	13	27	14	29		
	B	325	370	C	10	20	11	23	13	27	15	30	17	34	18	37	20	41	22	41	23	41		
				O	3	7	5	10	7	14	9	18	10	21	12	24	14	28	16	32	17	35		
	C	290	10	C	11	22	13	27	15	31	17	35	19	39	21	41	23	41	25	41	27	41		
				O	4	8	6	12	8	16	10	20	12	24	14	28	16	32	18	36	20	40		
	D	250	250	C	12	26	15	30	17	35	19	39	21	41	24	41	26	41	28	41	30	41		
				O	4	9	7	13	9	18	11	23	13	27	16	32	18	37	20	41	22	41		
	E	215	215	C	14	29	17	35	20	40	22	41	25	41	28	41	30	41	33		35			
				O	5	10	8	16	10	21	13	26	16	31	18	37	21	41	23		26			
	F	180	180	C	17	35	20	41	23	41	26	41	29	41	32	41	36		39		41			
				O	6	12	9	19	12	25	15	31	18	38	21	41	24		28		31			
	G	145	145	C	20	41	24	41	27	41	31	41	35	41	38		41		41		41			
				O	7	14	11	22	14	29	18	37	22	41	25		29		32		36			

C : Closed O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: 17-4PH, DN 250 mm and 300 mm, Lo dB Valves

Seat: Metal Seat and Soft Seat ( T1 through T4 trims)

Seat Leakage: Class IV and Class VI

Range: 7-25 psi

Maximum Pressure Drop in bar	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 8 bar
T4 trim (Soft Seat)	For T < 95° C - P < 23 bar
	For T > 95° C but < 205° C - P < 11 bar

Flow to Close - Air to Open																						
Size DN	ATA Adjust	C <sub>v</sub>		Position	Supply		Supply		Supply		Supply		Supply		Supply		Supply		Supply			
		Std. Cap.	High Cap.		35 psi		40 psi		45 psi		50 psi		55 psi		60 psi		65 psi		70 psi		75 psi	
					2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
					ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9
250	A	620	745	C	8	21	9	25	10	29	12	31	13	31	15	31	16	31	18	31	19	
				O	3	8	4	11	6	15	7	19	8	23	10	27	11	31	12	31	14	
	B	560	645	C	9	26	11	30	12	31	14	31	16	31	18	31	19		21		22	
				O	3	9	5	13	7	18	8	23	10	27	11	31	13		15		17	
	C	495	535	C	11	29	12	31	14	31	16	31	18	31	20		22		24		26	
				O	4	10	6	16	8	21	9	26	11	31	13		15		17		19	
	D	435	435	C	12	31	14	31	16	31	19	31	21	31	23		25		27		29	
				O	4	12	6	18	9	24	11	30	13	31	15		17		19		22	
	E	370	370	C	14	31	16	31	19	31	21	31	24		26		29		31		31	
				O	5	13	7	20	10	27	12	31	15		17		20		22		25	
	F	310	310	C	17	31	19	31	22	31	26		28		31		31		31		31	
				O	6	16	9	24	12	31	15		18		21		23		27		30	
	G	250	250	C	19	31	23	31	27	31	30		31		31		31		31			
				O	7	19	10	29	14	31	17		21		24		28		31			

Maximum Pressure Drop in bar	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 8 bar
T4 trim (Soft Seat)	For T < 95° C - P < 19 bar
	For T > 95° C but < 205° C - P < 10 bar

Flow to Close - Air to Open																						
Size DN	ATA Adjust	C <sub>v</sub>		Position	Supply		Supply		Supply		Supply		Supply		Supply		Supply		Supply			
		Std. Cap.	High Cap.		35 psi		40 psi		45 psi		50 psi		55 psi		60 psi		65 psi		70 psi		75 psi	
					2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
					ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9
300	A	1000	1200	C	4	12	5	14	6	16	7	18	7	21	8	21	9	21	10	21	10	21
				O	1	4	2	6	3	9	4	11	4	13	5	15	6	17	7	19	8	21
	B	900	1035	C	5	14	6	17	7	19	8	21	9	21	10	21	11	21	12	21	12	
				O	2	5	3	8	3	10	4	13	6	15	7	18	7	20	8	21	9	
	C	800	865	C	6	16	7	19	8	21	9	21	10	21	11	21	12	21	13		14	
				O	2	6	3	9	4	12	5	14	6	18	7	20	8	21	10		11	
	D	700	700	C	7	19	8	21	9	21	10	21	11	21	13	21	14		15		17	
				O	2	7	3	10	5	13	6	17	7	20	8	21	10		11		12	
	E	600	600	C	8	21	9	21	10	21	12	21	13	21	15		16		18		19	
				O	3	8	4	11	6	15	7	19	8	21	10		11		12		14	
	F	500	500	C	9	21	11	21	12	21	14	21	16		18		19		21		21	
				O	3	9	5	13	7	18	8	21	10		11		13		15		17	
	G	400	400	C	11	21	13	21	15	21	17		19		21		21		21		21	
				O	4	11	6	16	8	21	10		12		13		16		18		19	

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS. O : Open

MASONEILAN

Shaft: 17-4PH, DN 400, Lo dB Valves  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in bar	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 8 bar
T4 trim (Soft Seat)	For T < 95° C - P < 13 bar
	For T > 95° C but < 205° C - P < 9 bar

Flow to Close - Air to Open																						
Size DN	ATA Adjust	C <sub>v</sub>		Position	Supply		Supply		Supply		Supply		Supply		Supply		Supply		Supply			
		Std. Cap.	High Cap.		35 psi		40 psi		45 psi		50 psi		55 psi		60 psi		65 psi		70 psi		75 psi	
					2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
		ATA9	ATA13		ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13
400	A	1750	2100	C	5	9	6	11	7	12	8	14	9	16	10	16	11	16	12	16	12	16
				O	2	3	3	5	3	7	4	8	6	10	7	11	7	13	8	15	9	16
	B	1575	1810	C	6	11	7	13	8	15	9	16	11	16	12	16	13	16	14		15	
				O	2	4	3	6	4	8	6	10	7	12	8	14	9	16	10		11	
	C	1400	1510	C	7	13	8	15	10	16	11	16	12	16	13	16	15		16		16	
				O	2	4	4	7	5	9	6	11	8	14	9	16	10		11		13	
	D	1225	1225	C	8		9		11		12		14		15		16		16		16	
				O	3		4		6		7		9		10		11		13		14	
	E	1050	1050	C	9		11		12		14		16		16		16		16		16	
				O	3		5		7		8		10		11		13		15		16	
	F	875	875	C	11		13		15		16		16		16		16					
				O	4		6		8		10		12		14		16					
	G	700	700	C	13		15		16		16		16		16							
				O	4		7		9		11		14		16							

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: 316 SS, DN 150 mm and 200 mm, Lo dB Valves

Seat: Metal Seat and Soft Seat ( T1 through T4 trims)

Seat Leakage: Class IV and Class VI

Range: 7-25 psi

Maximum Pressure Drop in bar	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 12 bar
T4 trim (Soft Seat)	For T < 95° C - P < 34 bar
	For T > 95° C but < 205° C - P < 17 bar

Flow to Close - Air to Open																						
Size DN	ATA Adjust	C <sub>v</sub>		Position	Supply		Supply		Supply		Supply		Supply		Supply		Supply		Supply			
		Std. Cap.	High Cap.		35 psi		40 psi		45 psi		50 psi		55 psi		60 psi		65 psi		70 psi		75 psi	
					2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
					ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7
150	A	210	260	C	19	26	22	26	25	26	26		26		26		26					
				O	7	13	10	20	13	26	17		20		23		26					
	B	190	220	C	22	26	26	26	26	26	26		26		26							
				O	8	16	12	24	16	26	20		24		26							
	C	170	185	C	26	26	26	26	26		26		26									
				O	9	19	14	26	18		23		26									
	D	145	145	C	26	26	26	26	26		26											
				O	10	21	16	26	21		26											
	E	125	125	C	26	26	26	26	26		26											
				O	12	24	18	26	24		26											
	F	105	105	C	26	26	26		26													
				O	14	26	21		26													
	G	85	85	C	26	26	26		26													
				O	17	26	25		26													

Maximum Pressure Drop in bar	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 8 bar
T4 trim (Soft Seat)	For T < 95° C - P < 27 bar
	For T > 95° C but < 205° C - P < 14 bar

Flow to Close - Air to Open																						
Size DN	ATA Adjust	C <sub>v</sub>		Position	Supply		Supply		Supply		Supply		Supply		Supply		Supply		Supply			
		Std. Cap.	High Cap.		35 psi		40 psi		45 psi		50 psi		55 psi		60 psi		65 psi		70 psi		75 psi	
					2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
					ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7
200	A	360	435	C	8	17	9	18	11	18	12	18	14	18	15	18	17		18		18	
				O	3	6	4	9	6	12	7	14	9	18	10	18	11		13		14	
	B	325	370	C	10	18	11	18	13	18	15	18	17	18	18		18		18		18	
				O	3	7	5	10	7	14	9	18	10	18	12		14		16		17	
	C	290	310	C	11	18	13	18	15	18	17	18	18		18		18		18		18	
				O	4	8	6	12	8	16	10	18	12		14		16		18		18	
	D	250	250	C	12	18	15	18	17	18	18		18		18		18					
				O	4	9	7	13	9	18	11		13		16		18					
	E	215	215	C	14	18	17	18	18	18	18		18		18							
				O	5	10	8	16	10	18	13		16		18							
	F	180	180	C	17	18	18	18	18		18		18									
				O	6	12	9	18	12		15		18									
	G	145	145	C	18	18	18	18	18		18											
				O	7	14	11	18	14		18											

C : Closed O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: 316 SS, DN 250 mm and 300 mm, Lo dB Valves  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in bar	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 8 bar
T4 trim (Soft Seat)	For T < 95° C - P < 23 bar
	For T > 95° C but < 205° C - P < 11 bar

Flow to Close - Air to Open																						
Size DN	ATA Adjust	C <sub>v</sub>		Position	Supply		Supply		Supply		Supply		Supply		Supply		Supply		Supply			
		Std. Cap.	High Cap.		35 psi		40 psi		45 psi		50 psi		55 psi		60 psi		65 psi		70 psi		75 psi	
					2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
					ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9
250	A	620	745	C	8	14	9	14	10	14	12		13		14		14		14		14	
				O	3	8	4	11	6	14	7		8		10		11		12		14	
	B	560	645	C	9	14	11	14	12	14	14		14		14		14		14			
				O	3	9	5	13	7	14	8		10		11		13		14			
	C	495	535	C	11	14	12	14	14		14		14		14		14					
				O	4	10	6	14	8		9		11		13		14					
	D	435	435	C	12	14	14	14	14		14		14		14							
				O	4	12	6	14	9		11		13		14							
	E	370	370	C	14	14	14	14	14		14		14									
				O	5	13	7	14	10		12		14									
	F	310	310	C	14	14	14		14		14											
				O	6	14	9		12		14											
	G	250	250	C	14	14	14		14		14											
				O	7	14	10		14		14											

Maximum Pressure Drop in bar	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 8 bar
T4 trim (Soft Seat)	For T < 95° C - P < 19 bar
	For T > 95° C but < 205° C - P < 10 bar

Flow to Close - Air to Open																						
Size DN	ATA Adjust	C <sub>v</sub>		Position	Supply		Supply		Supply		Supply		Supply		Supply		Supply		Supply			
		Std. Cap.	High Cap.		35 psi		40 psi		45 psi		50 psi		55 psi		60 psi		65 psi		70 psi		75 psi	
					2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
					ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9
300	A	1000	1200	C	4	12	5	12	6	12	7	12	7	12	8		9		10		10	
				O	1	4	2	6	3	9	4	11	4	12	5		6		7		8	
	B	900	1035	C	5	12	6	12	7	12	8	12	9		10		11		12		12	
				O	2	5	3	8	3	10	4	12	6		7		7		8		9	
	C	800	865	C	6	12	7	12	8	12	9	12	10		11		12		12		12	
				O	2	6	3	9	4	12	5	12	6		7		8		10		11	
	D	700	700	C	7	12	8	12	9	12	10		11		12		12		12		12	
				O	2	7	3	10	5	12	6		7		8		10		11		12	
	E	600	600	C	8	12	9	12	10	12	12		12		12		12		12		12	
				O	3	8	4	11	6	12	7		8		10		11		12			
	F	500	500	C	9	12	11	12	12		12		12		12		12					
				O	3	9	5	12	7		8		10		11		12					
	G	400	400	C	11	12	12	12	12		12		12		12							
				O	4	11	6	12	8		10		12		12							

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: 316 SS, DN 400 mm, Lo dB Valves  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in bar	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 8 bar
T4 trim (Soft Seat)	For T < 95° C - P < 13 bar
	For T > 95° C but < 205° C - P < 9 bar

Flow to Close - Air to Open																						
Size DN	ATA Adjust	C <sub>v</sub>		Position	Supply		Supply		Supply		Supply		Supply		Supply		Supply		Supply			
		Std. Cap.	High Cap.		35 psi		40 psi		45 psi		50 psi		55 psi		60 psi		65 psi		70 psi		75 psi	
					2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
		ATA9	ATA13		ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13
400	A	1750	2100	C	5	9	6	11	7	12	8	12	9	12	10	12	11	12	12		12	
				O	2	3	3	5	3	7	4	8	6	10	7	11	7	12	8		9	
	B	1575	1810	C	6	11	7	12	8	12	9	12	11	12	12	12	12		12		12	
				O	2	4	3	6	4	8	6	10	7	12	8	12	9		10		11	
	C	1400	1510	C	7	12	8	12	10	12	11	12	12	12	12		12		12		12	
				O	2	4	4	7	5	9	6	11	8	12	9		10		11		12	
	D	1225	1225	C	8		9		11		12		12		12		12		12			
				O	3		4		6		7		9		10		11		12			
	E	1050	1050	C	9		11		12		12		12		12		12					
				O	3		5		7		8		10		11		12					
	F	875	875	C	11		12		12		12		12		12							
				O	4		6		8		10		12		12							
	G	700	700	C	12		12		12		12		12									
				O	4		7		9		11		12									

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: Nitronic 50, DN 150 mm and 200 mm, Lo dB Valves

Seat: Metal Seat and Soft Seat ( T1 through T4 trims)

Seat Leakage: Class IV and Class VI

Range: 7-25 psi

Maximum Pressure Drop in bar	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 12 bar
T4 trim (Soft Seat)	For T < 95° C - P < 34 bar
	For T > 95° C but < 205° C - P < 17 bar

Flow to Close - Air to Open																						
Size DN	ATA Adjust	C <sub>v</sub>		Position	Supply		Supply		Supply		Supply		Supply		Supply		Supply		Supply			
		Std. Cap.	High Cap.		35 psi		40 psi		45 psi		50 psi		55 psi		60 psi		65 psi		70 psi		75 psi	
					2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
					ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7
150	A	210	260	C	19	38	22	41	25	41	29	41	32	41	35	41	39		41		41	
				O	7	13	10	20	13	27	17	34	20	41	23	41	27			30		33
	B	190	220	C	22	41	26	41	30	41	34	41	38	41	41		41		41		41	
				O	8	16	12	24	16	32	20	41	24	41	28		32			36		40
	C	170	185	C	26	41	30	41	35	41	39	41	41		41		41		41		41	
				O	9	19	14	28	18	37	23	41	28		32		37			41		41
	D	145	145	C	29	41	34	41	39	41	41		41		41		41					
				O	10	21	16	32	21	41	26		31		36		41					
	E	125	125	C	33	41	40	41	41	41	41		41		41							
				O	12	24	18	37	24	41	30		36		41							
	F	105	105	C	40	41	41	41	41		41		41									
				O	14	29	21	41	28		36		41									
	G	85	85	C	41	41	41	41	41		41											
				O	17	34	25	41	33		41											

Maximum Pressure Drop in bar	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 8 bar
T4 trim (Soft Seat)	For T < 95° C - P < 27 bar
	For T > 95° C but < 205° C - P < 14 bar

Flow to Open																						
Size DN	ATA Adjust	C <sub>v</sub>		Position	Supply		Supply		Supply		Supply		Supply		Supply		Supply		Supply			
		Std. Cap.	High Cap.		35 psi		40 psi		45 psi		50 psi		55 psi		60 psi		65 psi		70 psi		75 psi	
					2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
					ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7	ATA5	ATA7
200	A	360	435	C	8	17	9	19	11	22	12	25	14	28	15	29	17	29	18	29	19	29
				O	3	6	4	9	6	12	7	14	9	18	10	21	11	23	13	27	14	29
	B	325	370	C	10	20	11	23	13	27	15	29	17	29	18	29	20	29	22	29	23	
				O	3	7	5	10	7	14	9	18	10	21	12	24	14	28	16	29	17	
	C	290	310	C	11	22	13	27	15	29	17	29	19	29	21	29	23	29	25		27	
				O	4	8	6	12	8	16	10	20	12	24	14	28	16	29	18		20	
	D	250	250	C	12	26	15	29	17	29	19	29	21	29	24	29	26		28		29	
				O	4	9	7	13	9	18	11	23	13	27	16	29	18		20		22	
	E	215	215	C	14	29	17	29	20	29	22	29	25	29	28		29		29		29	
				O	5	10	8	16	10	21	13	26	16	29	18		21		23		26	
	F	180	180	C	17	29	20	29	23	29	26	29	29		29		29		29		29	
				O	6	12	9	19	12	25	15	29	18		21		24		28		29	
	G	145	145	C	20	29	24	29	27	29	29		29		29		29		29			
				O	7	14	11	22	14	29	18		22		25		29		29			

C : Closed O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN

Shaft: Nitronic 50, DN 250 mm and 300 mm, Lo dB Valves

Seat: Metal Seat and Soft Seat ( T1 through T4 trims)

Seat Leakage: Class IV and Class VI

Range: 7-25 psi

Maximum Pressure Drop in bar	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 8 bar
T4 trim (Soft Seat)	For T < 95° C - P < 23 bar
	For T > 95° C but < 205° C - P < 11 bar

Flow to Close - Air to Open																						
Size DN	ATA Adjust	C <sub>v</sub>		Position	Supply		Supply		Supply		Supply		Supply		Supply		Supply		Supply			
		Std. Cap.	High Cap.		35 psi		40 psi		45 psi		50 psi		55 psi		60 psi		65 psi		70 psi		75 psi	
					2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
					ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9
250	A	620	745	C	8	21	9	23	10	23	12	23	13	23	15		16		18		19	
				O	3	8	4	11	6	15	7	19	8	23	10		11		12		14	
	B	560	645	C	9	23	11	23	12	23	14	23	16	23	18		19		21		22	
				O	3	9	5	13	7	18	8	23	10	23	11		13		15		17	
	C	495	535	C	11	23	12	23	14	23	16	23	18		20		22		23		23	
				O	4	10	6	16	8	21	9	23	11		13		15		17		19	
	D	435	435	C	12	23	14	23	16	23	19		21		23		23		23		23	
				O	4	12	6	18	9	23	11		13		15		17		19		22	
	E	370	370	C	14	23	16	23	19	23	21		23		23		23		23		23	
				O	5	13	7	20	10	23	12		15		17		20		22		23	
	F	310	310	C	17	23	19	23	22		23		23		23		23					
				O	6	16	9	23	12		15		18		21		23					
	G	250	250	C	19	23	23	23	23		23		23		23							
				O	7	19	10	23	14		17		21		23							

Maximum Pressure Drop in bar	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 8 bar
T4 trim (Soft Seat)	For T < 95° C - P < 19 bar
	For T > 95° C but < 205° C - P < 10 bar

Flow to Close - Air to Open																						
Size DN	ATA Adjust	C <sub>v</sub>		Position	Supply		Supply		Supply		Supply		Supply		Supply		Supply		Supply			
		Std. Cap.	High Cap.		35 psi		40 psi		45 psi		50 psi		55 psi		60 psi		65 psi		70 psi		75 psi	
					2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
					ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9	ATA7	ATA9
300	A	1000	1200	C	4	12	5	14	6	16	7	18	7	20	8	20	9	20	10	20	10	20
				O	1	4	2	6	3	9	4	11	4	13	5	15	6	17	7	19	8	19
	B	900	1035	C	5	14	6	17	7	19	8	20	9	20	10	20	11	20	12		12	
				O	2	5	3	8	3	10	4	13	6	15	7	18	7	20	8		9	
	C	800	865	C	6	16	7	19	8	20	9	20	10	20	11	20	12		13		14	
				O	2	6	3	9	4	12	5	14	6	18	7	20	8		10		11	
	D	700	700	C	7	19	8	20	9	20	10	20	11	20	13		14		15		17	
				O	2	7	3	10	5	13	6	17	7	20	8		10		11		12	
	E	600	600	C	8	20	9	20	10	20	12	20	13	20	15		16		18		19	
				O	3	8	4	11	6	15	7	19	8	20	10		11		12		14	
	F	500	500	C	9	20	11	20	12	20	14	20	16		18		19		20		20	
				O	3	9	5	13	7	18	8	20	10		11		13		15		17	
	G	400	400	C	11	20	13	20	15	20	17		19		20		20		20		20	
				O	4	11	6	16	8	20	10		12		13		16		18		19	

C : Closed O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN



Shaft: Nitronic 50, DN 400 mm, Lo dB Valves  
 Seat: Metal Seat and Soft Seat ( T1 through T4 trims)  
 Seat Leakage: Class IV and Class VI  
 Range: 7-25 psi

Maximum Pressure Drop in bar	
For the T1 and T4 trim, the maximum values must be limited to:	
T1 trim (Stainless St. / Stainless St.)	P < 8 bar
T4 trim (Soft Seat)	For T < 95° C - P < 13 bar
	For T > 95° C but < 205° C - P < 9 bar

Flow to Close - Air to Open																						
Size DN	ATA Adjust	C <sub>v</sub>		Position	Supply		Supply		Supply		Supply		Supply		Supply		Supply		Supply			
		Std. Cap.	High Cap.		35 psi		40 psi		45 psi		50 psi		55 psi		60 psi		65 psi		70 psi		75 psi	
					2.4 bar		2.8 bar		3.1 bar		3.4 bar		3.8 bar		4.1 bar		4.5 bar		4.8 bar		5.2 bar	
		ATA9	ATA13		ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13	ATA9	ATA13
400	A	1750	2100	C	5	9	6	11	7	12	8	14	9	16	10	16	11	16	12	16	12	16
				O	2	3	3	5	3	7	4	8	6	10	7	11	7	13	8	15	9	16
	B	1575	1810	C	6	11	7	13	8	15	9	16	11	16	12	16	13	16	14		15	
				O	2	4	3	6	4	8	6	10	7	12	8	14	9	16	10		11	
	C	1400	1510	C	7	13	8	15	10	16	11	16	12	16	13	16	15		16		16	
				O	2	4	4	7	5	9	6	11	8	14	9	16	10		11		13	
	D	1225	1225	C	8		9		11		12		14		15		16		16		16	
				O	3		4		6		7		9		10		11		13		14	
	E	1050	1050	C	9		11		12		14		16		16		16		16		16	
				O	3		5		7		8		10		11		13		15		16	
	F	875	875	C	11		13		15		16		16		16		16					
				O	4		6		8		10		12		14		16					
	G	700	700	C	13		15		16		16		16		16							
				O	4		7		9		11		14		16							

C : Closed      O : Open

NOTE: INLET PRESSURE MUST NOT EXCEED THE ANSI RATING FOR THE SELECTED PRESSURE CLASS.

MASONEILAN