

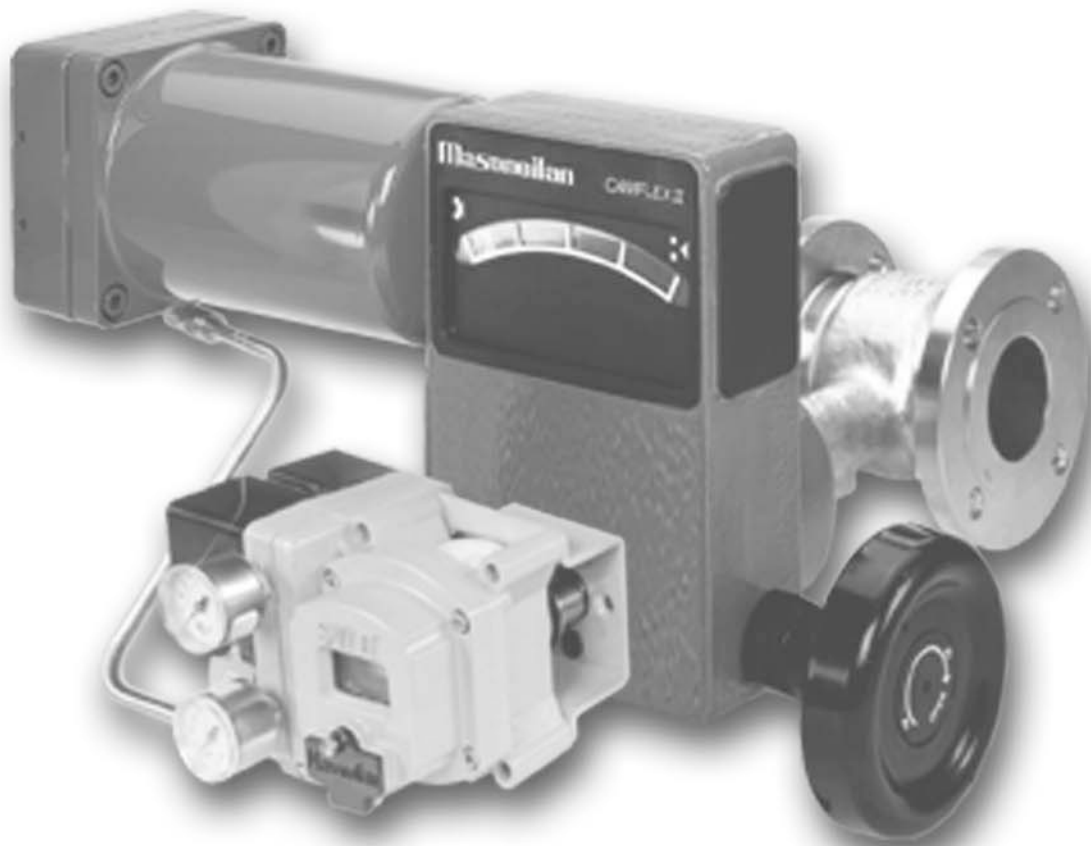
# Camflex

## 35000 Series

### Pressure Drop Tables

#### PH5000

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# Table of Contents

## 35000 Series Pressure Drop Tables

### PH5000

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**Note: Allowable Pressure Drop Tables provided in both US Units (psi) and Metric Units (bar) in separate sections but on same page numbers.**

#### 17 – 4 PH Shaft

##### ANSI Class IV

1" – 4".....	Page 3
6" – 8".....	Page 4
10" – 12".....	Page 5

#### 17 – 4 PH

##### ANSI Class VI

1" – 4".....	Page 6
6" – 8".....	Page 7
10" – 12".....	Page 8

#### 316 or 316L Shaft

##### ANSI Class IV

1" – 4".....	Page 9
6" – 8".....	Page 10
10" – 12".....	Page 11

#### 316 or 316L Shaft

##### ANSI Class VI

1" – 4".....	Page 12
6" – 8".....	Page 13
10" – 12".....	Page 14



**Flow Solutions**

**Masoneilan**

# US Units

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# Camflex 35000 Series Pressure Drop Tables



Masoneilan

**Shaft : 17 - 4 PH**  
**Seat : Metal / Metal**  
**Seat leakage : Class IV**  
**Range : 7 - 15**

Valve Size		Actuator		CV Flow to Close	CV Flow to Open	CV Differential Velocity Device Flow to Open	Air to Close Flow to Close	Air to Open Flow to Open	Air to Open / Flow to Close or Air to Close / Flow to Open									
		Size	Range						Supply Pressure (psi)									
in	DN	in	psi						20	20	20	25	30	35	40	45		
1	25	4 1/2	7-15	15	14		1000	1015	1015									
				9	8.4		1450	1450	1450									
				6	5.6		1450	1450	1450									
				3			1450	1450	1450									
				1			1450	1450	1450									
				0.5			1450	1450	1450									
1 1/2	40			4 1/2	7-15			5		1450	1450							
						39	33	1450	667	428	798							
						23.4	19.8	1450	1000	638	1378							
						15.6	13.2	1450	1399	899	1450							
								12.5		1000	638	1378						
						2	50	4 1/2	7-15				479	363	232	500	602	
53	50	740	558	348	761					1015								
31.8	30	1000	740	471	1015					1015								
21.2	20		558	348	761					1015								
		18																
3	80	6	7-15								261		283	181	377	602		
				145	135	406	421	268	580		928							
				87	81	537	638	399	870		1015							
				58	54		421	268	580		928							
						48												
				4	100	6	7-15					189	138	87	203	319	442	558
230		319	218					138	297	551		667	856	1015				
138		450	312					203	428	696		972	1015	1015				
92			218					138	297	551		667	856	1015				
		77																

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

Shaft : 17 - 4 PH  
 Seat : Metal / Metal  
 Seat leakage : Class IV  
 Range : 7-24 & 7-25

Valve Size		Actuator		CV Flow to Open & Flow to Close	CV Differential Velocity Device Flow to Open	Flow Direction	Air to Close Flow to Close	Air to Open Flow to Open	Air to Open / Flow to Close or Air to Close / Flow to Open																
		Size	Range						Supply Pressure (psi)																
in	in	in	psi						30	30	30	35	40	45	50	55	60	65	70	75					
6	150	7	7-24	500		FTO		87	51	131	203	297	363	442	522	602									
						FTC gas	138		51	131	203	297	363	442	522	602									
						FTC liquid	138		51	131	203	297	297	297	297	297									
				300		FTO		131	73	181	297	399	500	616	732	848									
						FTC gas	218		73	181	297	399	500	616	732	848									
						FTC liquid	218		73	181	297	399	428	428	428	428									
		200		FTO		203	109	276	450	616	798	972	1015												
				FTC gas	305		109	276	450	616	798	972	1015												
				FTC liquid	305		109	276	450	500	500	500	500												
						181		131	73	181	297	399	500	616	732	848									
		N.9	7-25	500		FTO		232	131	319	464	609	740												
						FTC gas	319		131	319	464	609	740												
	FTC liquid					319		131	319	392	392														
	300				FTO		348	189	479	711	928	1218													
					FTC gas	493		189	479	711	928	1218													
					FTC liquid	493		189	479	609	609	609													
	200			FTO		522	290	711	1030	1349	1450														
				FTC gas	711		290	711	1030	1349	1450														
				FTC liquid	711		290	711	885	885	885														
						181		348	189	479	711	928	1218												
	8		300	7	7-24	850		FTO		44	22	58	102	138	181	218	261	297	341	348					
								FTC gas	70		22	58	102	138	181										
		FTC liquid						70		22	58	87	87	87											
		510					FTO		73	44	102	160	218	283	341	399	457	522	551						
FTC gas							109		44	102	160	218	283												
FTC liquid							109		44	102	138	138													
340				FTO		109	58	160	247	348	450	551	638	740	841	899									
				FTC gas	174		58	160	247	348	450														
				FTC liquid	174		58	160	218	218	218														
						308		73	44	102	160	218	283	341	399	457	522	551							
N.9		7-25		850		FTO		109	59	145	218	290	363												
						FTC gas	160		59	145	218	290	363												
			FTC liquid			160		59	145	189	189	189													
			510		FTO		160	87	232	348	450	551													
					FTC gas	247		87	232	348	450	551													
					FTC liquid	247		87	232	305	305	305													
		340		FTO		276	145	377	566	740	899														
				FTC gas	392		145	377	566	740	899														
				FTC liquid	392		145	377	493	493	493														
						308		160	87	232	348	450	551												

FTO: Flow to open (liquid and gas) FTC: Flow to close

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

Shaft : 17 - 4 PH  
 Seat : Metal / Metal  
 Seat leakage : Class IV  
 Range : 7-24 & 7-25

Valve Size		Actuator		CV Flow to Open & Flow to Close	CV Differential Velocity Device Flow to Open	Flow Direction	Air to Close Flow to Close	Air to Open Flow to Open	Air to Open / Flow to Close or Air to Close / Flow to Open															
		Size	Range						Supply Pressure (psi)															
in	DN	in	psi						30	30	30	35	40	45	50	55	60	65	70	75				
10	250	7	7-24	1300		FTO		22	15	36	58	80	102	116	138	160	181	210						
						FTC gas	41		15	36	58	80	102											
						FTC liquid	41		15	36	51	51	51											
				780		FTO		44	22	51	80	116	152	181	218	247	283	319						
						FTC gas	59		22	51	80	116	152											
						FTC liquid	59		22	51	73	73	73											
				520		FTO		58	36	87	138	189	239	297	348	399	457	508						
						FTC gas	94		36	87	138	189	239											
						FTC liquid	94		36	87	123	123	123											
						486		44	22	51	80	116	152	181	218	247	283	319						
		N.9	7-25	1300		FTO		58	29	80	116	160	203	247	305	319								
						FTC gas	87		29	80	116	160	203	218										
						FTC liquid	87		29	80	109	109	109											
				780		FTO		87	45	123	174	247	319	377	464	479								
						FTC gas	131		45	123	174	247	319	334										
						FTC liquid	131		45	123	160	160	160	160										
				520		FTO		145	73	203	290	392	522	624	754	783								
						FTC gas	218		73	203	290	392	522	537										
FTC liquid	218						73	203	261	261	261	261												
				486		87	45	123	174	247	319	377	464	479										
12	300	7	7-24	1750		FTO		15		22	29	44	58	73	80	87	102	116						
						FTC gas	20			22	29	44	58	58										
						FTC liquid	20			22	29	29	29	29										
				1050		FTO		22	7	29	51	73	87	102	116	138	160	181						
						FTC gas	35		7	29	51	73	87											
						FTC liquid	35		7	29	44	44	44											
				700		FTO		36	22	51	80	109	138	181	210	239	268	297						
						FTC gas	59		22	51	80	109	138											
						FTC liquid	59		22	51	73	73	73											
						684		22	7	29	51	73	87	102	116	138	160	181						
		N.9	7-25	1750		FTO		30	15	45	67	87	116	138	174	189	218	247						
						FTC gas	51		15	45	67	87	116	123										
						FTC liquid	51		15	45	62	62	62	62										
				1050		FTO		48	22	68	102	138	174	218	261	290	334	377						
						FTC gas	73		22	68	102	138	174	189										
						FTC liquid	73		22	68	94	94	94	94										
				700		FTO		73	36	109	160	218	305	363	435	493	551	624						
						FTC gas	123		36	109	160	218	305	305										
FTC liquid	123						36	109	145	145	145	145												
				684		48	22	68	102	138	174	218	261	290	334	377								

FTO: Flow to open (liquid and gas) FTC: Flow to close

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

Shaft : 17 - 4 PH  
 Seat : PTFE / Metal  
 Seat Leakage: Class VI  
 Range : 7 - 15

Valve Size		Actuator		CV Flow to Close	CV Flow to Open	CV Differential Velocity Device Flow to Open	Air to Open Flow to Open	Air to Open / Flow to Close or Air to Close / Flow to Open						
		Size	Range					Supply Pressure (psi)						
in	DN	in	psi				20	20	25	30	35	40	45	
1	25	4 1/2	7-15	15	14		798	798						
				9	8.4		1015	1015						
				6	5.6		1015	1015						
				5	1015	1015								
1 1/2	40			39	33		500	232	696					
				23.4	19.8		1015	319	1015					
				15.6	13.2		1015	522	1015					
				12.5	1015	319	1015							
2	50			53	50		247	94	370	602				
				31.8	30		529	138	529	943				
		21.2	20		522	232	747	1015						
		18	529	138	529	943								
3	80	145	135		203	87	297	500						
		87	81		421	131	421	740						
		58	54		479	232	682	798						
		48	421	131	421	740								
4	100	230			102	36	152	261	370	479	500			
		138			210	51	210	377	537	711	798			
		92			232	102	326	573	798	798	798			
					77	210	51	210	377	537	711	798		

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

Shaft : 17-4 PH  
 Seat :PTFE/ Metal  
 Seat leakage : Class VI  
 Range : 7-24 & 7-25

Valve Size		Actuator		CV Flow to Open & Flow to Close	CV Differential Velocity Device Flow to Open	Flow Direction	Air to Open Flow to Open	Air to Open / Flow to Close or Air to Close / Flow to Open												
		Size	Range					Supply Pressure (psi)												
in	DN	in	psi					30	30	35	40	45	50	55	60	65	70	75		
6	150	7	7-24	500		FTO	58	22	87	167	239	312	377	450	500					
						FTC gas		22	87	167	239	312	377	450	500					
						FTC liquid		22	87	167	239	297	297	297	297					
				300		FTO	131	29	131	239	348	450	529	616	732					
						FTC gas		29	131	239	348	450	529	616	718					
						FTC liquid		29	131	239	348	363	363	363	363					
		200		FTO	152	58	218	377	529	682	798									
				FTC gas		58	218	377	529	682	798									
				FTC liquid		58	218	377	500	500	500									
						181	FTO	131	29	131	239	348	450	529	616	732				
		N.9	7-25	500		FTO	145	61	232	363	508	624								
						FTC gas		61	232	363	508	624								
	FTC liquid						61	232	363	392	392									
	300				FTO	232	94	363	566	769	943									
					FTC gas		94	363	566	769	943									
					FTC liquid		94	363	566	609	609									
	200			FTO	348	145	522	812	1102	1363										
				FTC gas		145	522	812	1102	1363										
				FTC liquid		145	522	812	885	885										
						181	FTO	232	94	363	566	769	943							
	8		300	7	7-24	850		FTO	22		44	73	109	152	181	218	247	297		
								FTC gas			44	73	109	152	181					
		FTC liquid								44	73	87	87	87						
		510					FTO	44	7	65	116	167	232	283	341	399	450			
FTC gas								7	65	116	167	232	283							
FTC liquid								7	65	116	138	138	138							
340				FTO	73	22	109	203	283	370	450	537	616	696						
				FTC gas		22	109	203	283	370	450									
				FTC liquid		22	109	203	218	218	218									
						308	FTO	44	7	65	116	167	232	283	341	399	450			
N.9		7-25		850		FTO	71	22	109	174	247	305								
						FTC gas		22	109	174	247	305								
			FTC liquid				22	109	174	189	189									
			510		FTO	109	39	174	276	377	464									
					FTC gas		39	174	276	377	464									
					FTC liquid		39	174	276	305	305									
		340		FTO	189	71	276	435	595	740										
				FTC gas		71	276	435	595	740										
				FTC liquid		71	276	435	493	493										
						308	FTO	109	39	174	276	377	464							

FTO: Flow to open (liquid and gas) FTC: Flow to close

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



Shaft : 17-4 PH  
 Seat :PTFE/ Metal  
 Seat leakage : Class VI  
 Range : 7-24 & 7-25

Valve Size		Actuator		CV Flow to Open & Flow to Close	CV Differential Velocity Device Flow to Open	Flow Direction	Air to Open Flow to Open	Air to Open / Flow to Close or Air to Close / Flow to Open												
		Size	Range					Supply Pressure (psi)												
in	DN	in	psi					30	30	35	40	45	50	55	60	65	70	75		
10	250	7	7-24	1300		FTO				15	36	58	73	94	109	131	152	167		
						FTC gas			15	36	58	73	94	102						
						FTC liquid			15	36	51	51	51	51						
				780		FTO	15		29	58	87	116	152	181	210	239	268			
						FTC gas			29	58	87	116	152							
						FTC liquid			29	58	73	73	73							
		520		FTO	29		51	102	152	189	239	283	326	377	428					
				FTC gas			51	102	152	189	239									
				FTC liquid			51	102	116	116	116									
						486	FTO	15		29	58	87	116	152	181	210	239	268		
		N.9	7-25	1300		FTO	33		57	87	131	174	218	261	276					
						FTC gas			57	87	131	174	218	218						
	FTC liquid							57	87	109	109	109	109							
	780				FTO	55	15	87	145	189	276	319	406	421						
					FTC gas		15	87	145	189	276	319	334							
					FTC liquid		15	87	145	160	160	160	160							
	520			FTO	94	30	145	232	319	435	522	638	667							
				FTC gas		30	145	232	319	435	522	537								
				FTC liquid		30	145	232	261	261	261	261								
						486	FTO	55	15	87	145	189	276	319	406	421				
	12		300	7	7-24	1750		FTO				15	22	44	51	58	73	87	94	
								FTC gas				15	22	44	51	58				
		FTC liquid									15	22	29	29	29					
		1050					FTO			7	29	44	65	80	102	109	131	152		
FTC gas									7	29	44	65	80	87						
FTC liquid									7	29	44	44	44	44						
700				FTO	7		22	51	80	109	131	160	189	218	247					
				FTC gas			22	51	80	109	131	138								
				FTC liquid			22	51	73	73	73	73								
						684	FTO			7	29	44	65	80	102	109	131	152		
N.9		7-25		1750		FTO	15		28	49	71	94	116	145	160	189	218			
						FTC gas			28	49	71	94	116	123	123					
			FTC liquid					28	49	62	62	62	62							
			1050		FTO	26		46	73	109	145	174	218	261	290	334				
					FTC gas			46	73	109	145	174	189							
					FTC liquid			46	73	94	94	94	94							
		700		FTO	49		80	131	174	247	305	363	421	464	537					
				FTC gas			80	131	174	247	305	305								
				FTC liquid			80	131	145	145	145	145								
						684	FTO	26		46	73	109	145	174	218	261	290	334		

FTO: Flow to open (liquid and gas) FTC: Flow to close

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

Shaft : 316 OR 316L  
 Seat : Metal / Metal  
 Seat leakage : Class IV  
 Range : 7 - 15

Valve Size		Actuator		CV Flow to Close	CV Flow to Open	CV Differential Velocity Device Flow to Open	Air to Close Flow to Close	Air to Open Flow to Open	Air to Open / Flow to Close or Air to Close / Flow to Open											
		Size	Range						Supply Pressure (psi)											
in	DN	in	psi				20	20	20	25	30	35	40	45						
1	25	4 1/2	7-15	15	14		1000	1015	1015											
				9	8.4		1450	1450	1450											
				6	5.6		1450	1450	1450											
				3			1450	1450	1450											
				1			1450	1450	1450											
				0.5			1450	1450	1450											
1 1/2	40			4 1/2	7-15			5		1450	1450									
						39	33		1450	667	428	798								
						23.4	19.8		1450	1000	638	1378								
						15.6	13.2		1450	1399	899	1450								
								12.5		1000	638	1378								
						2	50	4 1/2	7-15			18		558	348	761	1015			
53	50		479							363	232	500	602							
31.8	30		740							558	348	761	1015							
21.2	20		1000							740	471	1015	1015							
3	80	6	7-15									48		421	268	580	928			
										145	135		261	283	181	377	602			
						87	81				406	421	268	580	928					
				58	54		537			638	399	870	1015							
				4	100	6	7-15					77		218	138	297	551	667	856	1015
										230			189	138	87	203	319	442	558	602
138											319	218	138	297	551	667	856	1015		
92											450	312	203	428	696	972	1015	1015		

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

Shaft : 316 OR 316L  
 Seat : Metal / Metal  
 Seat leakage : Class IV  
 Range : 7-24 & 7-25

Valve Size		Actuator		CV Flow to Open & Flow to Close	CV Differential Velocity Device Flow to Open	Flow Direction	Air to Close Flow to Close		Air to Open Flow to Open		Air to Open / Flow to Close or Air to Close / Flow to Open												
		Size	Range				Supply Pressure (psi)																
in	DN	in	psi				30	30	30	35	40	45	50	55	60	65	70	75					
6	150	7	7-24	500		FTO		87	51	131	203	297											
						FTC	138		51	131	203	297											
				300		FTO		131	73	181	297	399											
						FTC	218		73	181	297	399											
				200		FTO		203	109	276	450	602											
						FTC	305		109	276	450	500											
						181	FTO		131	73	181	297	399										
		N.9	7-25	500		FTO		232	131	319	348												
						FTC gas	319		131	319	348												
						FTC liquid	319		131	319	348												
				300		FTO		348	189	479	551												
						FTC gas	493		189	479	551												
						FTC liquid	493		189	479	551												
				200		FTO		522	290	711	798												
						FTC gas	711		290	711	798												
						FTC liquid	711		290	711	798												
								181	FTO		348	189	479	551									
				8	200	7	7-24	850		FTO		44	22	58	102	138	181	218					
										FTC gas	70		22	58	102	138	181						
		FTC liquid	70								22	58	87	87	87								
		510						FTO		73	44	102	160	218	276	297							
								FTC gas	109		44	102	160	218	276								
								FTC liquid	109		44	102	138	138	138								
		340				FTO		109	58	160	247	348	450	500									
FTC gas	174						58	160	247	348	450												
FTC liquid	174						58	160	218	218	218												
						308	FTO		73	44	102	160	218	276	297								
N.9	7-25	850				FTO		109	59	145	174												
						FTC gas	160		59	145	174												
						FTC liquid	160		59	145	174												
		510				FTO		160	87	232	261												
						FTC gas	247		87	232	261												
						FTC liquid	247		87	232	261												
		340				FTO		276	145	377	435												
						FTC gas	392		145	377	435												
						FTC liquid	392		145	377	435												
								308	FTO		160	87	232	261									

FTO: Flow to open (liquid and gas) FTC: Flow to close

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

Shaft : 316 OR 316L  
 Seat : Metal / Metal  
 Seat leakage : Class IV  
 Range : 7-24 & 7-25

Valve Size		Actuator		CV Flow to Open & Flow to Close	CV Differential Velocity Device Flow to Open	Flow Direction	Air to Close Flow to Close	Air to Open Flow to Open	Air to Open / Flow to Close or Air to Close / Flow to Open																
		Size	Range						Supply Pressure (psi)																
in	DN	in	psi						30	30	30	35	40	45	50	55	60	65	70	75					
10	250	7	7-24	1300		FTO		22	15	36	58	80	102	116	138	160									
						FTC gas	41		15	36	58	80	102												
						FTC liquid	41		15	36	51	51	51												
				780		FTO		44	22	51	80	116	152	181	218	247									
						FTC gas	59		22	51	80	116	152												
						FTC liquid	59		22	51	73	73	73												
		520		FTO		58	36	87	138	189	239	297	348	399											
				FTC gas	94		36	87	138	189	239														
				FTC liquid	94		36	87	116	116	116														
						486		44	22	51	80	116	152	181	218	247									
		N.9	7-25	1300		FTO		58	29	80	116	145													
						FTC gas	87		29	80	116	145													
	FTC liquid					87		29	80	109	109														
	780				FTO		87	45	123	174	232														
					FTC gas	131		45	123	174	232														
					FTC liquid	131		45	123	160	160														
	520			FTO		145	73	203	290	377															
				FTC gas	218		73	203	290	377															
				FTC liquid	218		73	203	261	261															
						486		87	45	123	174	232													
	12		300	7	7-24	1750		FTO		15		22	29	44	58	73	80	87	102	116					
								FTC gas	20			22	29	44	58	58									
		FTC liquid						20			22	29	29	29	29										
		1050					FTO		22	7	29	51	73	87	102	116	138	160	181						
FTC gas							35		7	29	51	73	87												
FTC liquid							35		7	29	44	44	44												
700				FTO		36	22	51	80	109	138	181	210	239	268	297									
				FTC gas	59		22	51	80	109	138														
				FTC liquid	59		22	51	73	73	73														
						684		22	7	29	51	73	87	102	116	138	160	181							
N.9		7-25		1750		FTO		30	15	45	67	87	116	131											
						FTC gas	51		15	45	67	87	116	123											
			FTC liquid			51		15	45	62	62	62													
			1050		FTO		48	22	68	102	138	174	203												
					FTC gas	73		22	68	102	138	174	189												
					FTC liquid	73		22	68	94	94	94	94												
		700		FTO		73	36	109	160	218	305	334													
				FTC gas	123		36	109	160	218	305	305													
				FTC liquid	123		36	109	145	145	145	145													
						684		48	22	68	102	138	174	203											

FTO: Flow to open (liquid and gas) FTC: Flow to close

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

**Shaft : 316 OR 316L**  
**Seat : PTFE / Metal**  
**Seat Leakage: Class VI**  
**Range : 7 - 15**

Valve Size		Actuator		CV Flow to Close	CV Flow to Open	CV Differential Velocity Device Flow to Open	Air to Open Flow to Open		Air to Open / Flow to Close or Air to Close / Flow to Open							
		Size	Range						Supply Pressure (psi)							
in	DN	in	psi						20	20	25	30	35	40	45	
1	25	4 1/2	7-15	15	14		55	55								
				9	8.4		70	70								
				6	5.6		70	70								
				5	70	70										
1 1/2	40			39	33		34.5	16	48							
				23.4	19.8		70	22	70							
				15.6	13.2		70	36	70							
				12.5	70	22	70									
2	50			53	50		17	6.5	25.5	41.5						
				31.8	30		36.5	9.5	36.5	65						
		21.2	20		36	16	51.5	70								
		18	36.5	9.5	36.5	65										
3	80	145	135		14	6	20.5	34.5								
		87	81		29	9	29	51								
		58	54		33	16	47	55								
		48	29	9	29	51										
4	100	230			7	2.5	11	18	25.5	33	34.5					
		138			14.5	3.5	14.5	26	37	49	55					
		92			16	7	22.5	39.5	55	55	55					
					77	14.5	3.5	14.5	26	37	49	55				

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

Shaft : 316 OR 316L  
 Seat : PTFE / Metal  
 Seat leakage : Class VI  
 Range : 7-24 & 7-25

Valve Size		Actuator		CV Flow to Open & Flow to Close	CV Differen- tial Velocity Device Flow to Open	Flow Direction	Air to Open Flow to Open	Air to Open / Flow to Close or Air to Close / Flow to Open															
		Size	Range					Supply Pressure (psi)															
in	DN	in	psi					30	30	35	40	45	50	55	60	65	70	75					
6	150	7	7-24	500		FTO	58	22	87	167	239												
						FTC		22	87	167	239												
				300		FTO	131	29	131	239	348												
						FTC		29	131	239	348												
				200		FTO	152	58	218	377	500												
						FTC		58	218	377	500												
					181	FTO	131	29	131	239	348												
		N.9	7-25	500		FTO	145	61	232	276													
						FTC gas		61	232	276													
						FTC liquid		61	232	276													
				300		FTO	232	94	363	421													
						FTC gas		94	363	421													
						FTC liquid		94	363	421													
				200		FTO	348	145	522	609													
						FTC gas		145	522	609													
						FTC liquid		145	522	609													
							181	FTO	232	94	363	421											
				8	200	7	7-24	850		FTO	22		44	73	109	152	181						
FTC gas											44	73	109	152	181								
FTC liquid			44							73	87	87	87										
510		FTO	44					7	65	116	167	232	276										
		FTC gas						7	65	116	167	232	276										
		FTC liquid						7	65	116	138	138	138										
340		FTO	73			22	109	203	276	370	450												
		FTC gas				22	109	203	276	370	450												
		FTC liquid				22	109	203	218	218	218												
			308			FTO	44	7	65	116	167	232	276										
N.9	7-25	850				FTO	71	22	109	131													
						FTC gas		22	109	131													
						FTC liquid		22	109	131													
		510				FTO	109	39	174	203													
						FTC gas		39	174	203													
						FTC liquid		39	174	203													
		340				FTO	189	71	276	319													
						FTC gas		71	276	319													
				FTC liquid		71	276	319															
					308	FTO	109	39	174	203													

FTO: Flow to open (liquid and gas) FTC: Flow to close

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

Shaft : 316 OR 316L  
 Seat : PTFE / Metal  
 Seat leakage : Class VI  
 Range : 7-24 & 7-25

Valve Size		Actuator		CV Flow to Open & Flow to Close	CV Differential Velocity Device Flow to Open	Flow Direction	Air to Open Flow to Open	Air to Open / Flow to Close or Air to Close / Flow to Open													
		Size	Range					Supply Pressure (psi)													
in	DN	in	psi					30	30	35	40	45	50	55	60	65	70	75			
10	250	7	7-24	1300		FTO				15	36	58	73	95	109	131					
						FTC gas			15	36	58	73	95	102							
						FTC liquid			15	36	51	51	51	51							
				780		FTO	15		29	58	87	116	153	182	211						
						FTC gas			29	58	87	116	153								
						FTC liquid			29	58	73	73	73								
				520		FTO	29		51	102	153	189	240	284	327						
						FTC gas			51	102	153	189	240								
						FTC liquid			51	102	116	116	116								
								486	FTO	15		29	58	87	116	153	182	211			
				N.9	7-25	1300		FTO	33		57	87	124								
								FTC gas			57	87	124								
		FTC liquid							57	87	109										
		780				FTO	55	15	87	145	189										
						FTC gas		15	87	145	189										
						FTC liquid		15	87	145	160										
		520				FTO	95	31	145	233	305										
						FTC gas		31	145	233	305										
						FTC liquid		31	145	233	262										
								486	FTO	55	15	87	145	189							
		12	300			7	7-24	1750		FTO				15	22	44	51	58	73	87	95
										FTC gas				15	22	44	51	58			
				FTC liquid								15	22	29	29	29					
				1050				FTO			7	29	44	65	80	102	109	131	153		
FTC gas									7	29	44	65	80	87							
FTC liquid									7	29	44	44	44	44							
700				FTO	7				22	51	95	109	131	160	189	218	247				
				FTC gas					22	51	80	109	131	138							
				FTC liquid					22	51	73	73	73								
								684	FTO			7	29	44	65	80	102	109	131	153	
N.9	7-25			1750				FTO	15		28	49	71	95	109						
								FTC gas			28	49	71	95	109						
						FTC liquid			28	49	63	63	63								
				1050		FTO	26		47	73	109	145	160								
						FTC gas			47	73	109	145	160								
						FTC liquid			47	73	95	95	95								
				700		FTO	49		80	131	174	247	276								
						FTC gas			80	131	174	247	276								
						FTC liquid			80	131	145	145	145								
								684	FTO	26		47	73	109	145	160					

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

# Metric Units

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# Camflex 35000 Series Pressure Drop Tables



Masoneilan



**Shaft : 17 - 4 PH**  
**Seat : Metal / Metal**  
**Seat leakage : Class IV**  
**Range : 7 - 15**

Valve Size		Actuator		CV Flow to Close	CV Flow to Open	CV Differential Velocity Device Flow to Open	Air to Close Flow to Close	Air to Open Flow to Open	Air to Open / Flow to Close or Air to Close / Flow to Open											
		Size	Range						Supply Pressure (bar)											
DN	in	in	psi						1.4	1.4	1.4	1.8	2.1	2.5	2.8	3.1				
25	1	4 1/2	7-15	15	14		69	70	70											
				9	8.4		100	100	100											
				6	5.6		100	100	100											
				3			100	100	100											
				1			100	100	100											
				0.5			100	100	100											
						5		100	100											
40	1 1/2			39	33		100	46	29.5	55										
				23.4	19.8		100	69	44	95										
				15.6	13.2		100	96.5	62	100										
50	2					12.5		69	44	95										
				53	50		33	25	16	34.5	41.5									
				31.8	30		51	38.5	24	52.5	70									
				21.2	20		69	51	32.5	70	70									
				18		38.5	24	52.5	70											
80	3	145	135		18	19.5	12.5	26	41.5											
		87	81		28	29	18.5	40	64											
		58	54		37	44	27.5	60	70											
				48		29	18.5	40	64											
100	4	230			13.0	9.5	6	14	22	30.5	38.5	41.5								
		138			22	15	9.5	20.5	38	46	59	70								
		92			31	21.5	14	29.5	48	67	70	70								
				77		15	9.5	20.5	38	46	59	70								

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

Shaft : 17 - 4 PH  
 Seat : Metal / Metal  
 Seat leakage : Class IV  
 Range : 7-24 & 7-25

Valve Size		Actuator		CV Flow to Open & Flow to Close	CV Differential Velocity Device Flow to Open	Flow Direction	Air to Close Flow to Close	Air to Open Flow to Open	Air to Open / Flow to Close or Air to Close / Flow to Open									
		Size	Range						Supply Pressure (bar)									
DN	in	in	psi															
						2.1	2.1	2.1	2.5	2.8	3.1	3.5	3.8	4.2	4.5	4.8	5.2	
150	6	7	7-24	500	FTO		6	3.5	9	14	20.5	25	30.5	36	41.5			
					FTC gas	9.5		3.5	9	14	20.5	25	30.5	36	41.5			
					FTC liquid	9.5		3.5	9	14	20.5	20.5	20.5	20.5	20.5			
				300	FTO		9	5	12.5	20.5	27.5	34.5	42.5	50.5	58.5			
					FTC gas	15		5	12.5	20.5	27.5	34.5	42.5	50.5	58.5			
					FTC liquid	15		5	12.5	20.5	27.5	29.5	29.5	29.5	29.5			
				200	FTO		14	7.5	19	31	42.5	55	67	70				
					FTC gas	21		7.5	19	31	42.5	55	67	70				
					FTC liquid	21		7.5	19	31	34.5	34.5	34.5	34.5				
					181	FTO		9	5	12.5	20.5	27.5	34.5	42.5	50.5	58.5		
		N.9	7-25	500	FTO		16	9	22	32	42	51						
					FTC gas	22		9	22	32	42	51						
					FTC liquid	22		9	22	27	27	27						
				300	FTO		24	13	33	49	64	84						
					FTC gas	34		13	33	49	64	84						
					FTC liquid	34		13	33	42	42	42						
				200	FTO		36	20	49	71	93	100						
					FTC gas	49		20	49	71	93	100						
FTC liquid	49					20	49	61	61	61								
			181	FTO		24	13	33	49	64	84							
200	300	7	7-24	850	FTO		3	1.5	4	7	9.5	12.5	15	18	20.5	23.5	24	
					FTC gas	4.8		1.5	4	7	9.5	12.5						
					FTC liquid	4.8		1.5	4	6	6	6						
				510	FTO		5	3	7	11	15	19.5	23.5	27.5	31.5	36	38	
					FTC gas	7.5		3	7	11	15	19.5						
					FTC liquid	7.5		3	7	9.5	9.5	9.5						
				340	FTO		7.5	4	11	17	24	31	38	44	51	58	62	
					FTC gas	12		4	11	17	24	31						
					FTC liquid	12		4	11	15	15	15						
					308	FTO		5	3	7	11	15	19.5	23.5	27.5	31.5	36	38
		N.9	7-25	850	FTO		7.5	4.1	10	15	20	25						
					FTC gas	11		4.1	10	15	20	25						
					FTC liquid	11		4.1	10	13	13	13						
				510	FTO		11	6	16	24	31	38						
					FTC gas	17		6	16	24	31	38						
					FTC liquid	17		6	16	21	21	21						
				340	FTO		19	10	26	39	51	62						
					FTC gas	27		10	26	39	51	62						
FTC liquid	27					10	26	34	34	34								
			308	FTO		11	6	16	24	31	38							

FTO: Flow to open (liquid and gas) FTC: Flow to close

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

PF5000 - 06/03  
 35000 Series

Shaft : 17 - 4 PH  
 Seat : Metal / Metal  
 Seat leakage : Class IV  
 Range : 7-24 & 7-25

Valve Size		Actuator		CV Flow to Open & Flow to Close	CV Differential Velocity Device Flow to Open	Flow Direction	Air to Close Flow to Close	Air to Open Flow to Open	Air to Open / Flow to Close or Air to Close / Flow to Open																
		Size	Range						Supply Pressure (bar)																
DN	in	in	psi						2.1	2.1	2.1	2.5	2.8	3.1	3.5	3.8	4.2	4.5	4.8	5.2					
250	10	7	7-24	1300		FTO		1.5	1	2.5	4	5.5	7	8	9.5	11	12.5	14.5							
						FTC gas	2.8		1	2.5	4	5.5	7												
						FTC liquid	2.8		1	2.5	3.5	3.5	3.5												
				780		FTO		3	1.5	3.5	5.5	8	10.5	12.5	15	17	19.5	22							
						FTC gas	4.1		1.5	3.5	5.5	8	10.5												
						FTC liquid	4.1		1.5	3.5	5	5	5												
		520		FTO		4	2.5	6	9.5	13	16.5	20.5	24	27.5	31.5	35									
				FTC gas	6.5		2.5	6	9.5	13	16.5														
				FTC liquid	6.5		2.5	6	8.5	8.5	8.5														
		N.9	7-25	486		FTO		3	1.5	3.5	5.5	8	10.5	12.5	15	17	19.5	22							
						FTC gas	6		2	5.5	8	11	14	17	21	22									
						FTC liquid	6		2	5.5	7.5	7.5	7.5												
	1300				FTO		4	2	5.5	8	11	14	17	21	22										
					FTC gas	6		2	5.5	8	11	14	15												
					FTC liquid	6		2	5.5	7.5	7.5	7.5													
	780			FTO		6	3.1	8.5	12	17	22	26	32	33											
				FTC gas	9		3.1	8.5	12	17	22	23													
				FTC liquid	9		3.1	8.5	11	11	11	11													
	520			FTO		10	5	14	20	27	36	43	52	54											
				FTC gas	15		5	14	20	27	36	37													
				FTC liquid	15		5	14	18	18	18	18													
	300	300	7	7-24	1750		FTO		1		1.5	2	3	4	5	5.5	6	7	8						
							FTC gas	1.4			1.5	2	3	4	4										
							FTC liquid	1.4			1.5	2	2	2	2										
1050						FTO		1.5	0.5	2	3.5	5	6	7	8	9.5	11	12.5							
						FTC gas	2.4		0.5	2	3.5	5	6												
						FTC liquid	2.4		0.5	2	3	3	3												
700				FTO		2.5	1.5	3.5	5.5	7.5	9.5	12.5	14.5	16.5	18.5	20.5									
				FTC gas	4.1		1.5	3.5	5.5	7.5	9.5														
				FTC liquid	4.1		1.5	3.5	5	5	5														
N.9			7-25	684		FTO		1.5	0.5	2	3.5	5	6	7	8	9.5	11	12.5							
						FTC gas	3.5		1	3.1	4.6	6	8	9.5	12	13	15	17							
						FTC liquid	3.5		1	3.1	4.3	4.3	4.3	4.3											
		1050			FTO		3.3	1.5	4.7	7	9.5	12	15	18	20	23	26								
					FTC gas	5		1.5	4.7	7	9.5	12	13												
					FTC liquid	5		1.5	4.7	6.5	6.5	6.5	6.5												
		700		FTO		5	2.5	7.5	11	15	21	25	30	34	38	43									
				FTC gas	8.5		2.5	7.5	11	15	21	21													
				FTC liquid	8.5		2.5	7.5	10	10	10	10													
		684		FTO		3.3	1.5	4.7	7	9.5	12	15	18	20	23	26									

FTO: Flow to open (liquid and gas) FTC: Flow to close

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

**Shaft : 17 - 4 PH**  
**Seat : PTFE / Metal**  
**Seat Leakage: Class VI**  
**Range : 7 - 15**

Valve Size		Actuator		CV Flow to Close	CV Flow to Open	CV Differential Velocity Device Flow to Open	Air to Open Flow to Open	Air to Open / Flow to Close or Air to Close / Flow to Open						
		Size	Range					Supply Pressure (bar)						
DN	in	in	psi				1.4	1.4	1.8	2.1	2.5	2.8	3.1	
25	1	4 1/2	7-15	15	14		55	55						
				9	8.4		70	70						
				6	5.6		70	70						
				5	70	70								
40	1 1/2			39	33		34.5	16	48					
				23.4	19.8		70	22	70					
				15.6	13.2		70	36	70					
				12.5	70	22	70							
50	2			53	50		17	6.5	25.5	41.5				
				31.8	30		36.5	9.5	36.5	65				
		21.2	20		36	16	51.5	70						
		18	36.5	9.5	36.5	65								
80	3	145	135		14	6	20.5	34.5						
		87	81		29	9	29	51						
		58	54		33	16	47	55						
		48	29	9	29	51								
100	4	230			7	2.5	11	18	25.5	33	34.5			
		138			14.5	3.5	14.5	26	37	49	55			
		92			16	7	22.5	39.5	55	55	55			
		77	14.5	3.5	14.5	26	37	49	55					

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

Shaft : 17 - 4 PH  
 Seat : PTFE/ Metal  
 Seat leakage : Class VI  
 Range : 7-24 & 7-25

Valve Size		Actuator		CV Flow to Open & Flow to Close	CV Differential Velocity Device Flow to Open	Flow Direction	Air to Open Flow to Open	Air to Open / Flow to Close or Air to Close / Flow to Open														
		Size	Range					Supply Pressure (bar)														
DN	in	in	psi					2.1	2.1	2.5	2.8	3.1	3.5	3.8	4.2	4.5	4.8	5.2				
150	6	7	7-24	500		FTO	4	1.5	6	11.5	16.5	21.5	26	31	34.5							
						FTC gas		1.5	6	11.5	16.5	21.5	26	31	34.5							
						FTC liquid		1.5	6	11.5	16.5	20.5	20.5	20.5	20.5							
				300		FTO	9	2	9	16.5	24	31	36.5	42.5	50.5							
						FTC gas		2	9	16.5	24	31	36.5	42.5	49.5							
						FTC liquid		2	9	16.5	24	25	25	25	25							
				200		FTO	10.5	4	15	26	36.5	47	55									
						FTC gas		4	15	26	36.5	47	55									
						FTC liquid		4	15	26	34.5	34.5	34.5									
						181		FTO	9	2	9	16.5	24	31	36.5	42.5	50.5					
		N.9	7-25	500		FTO	10	4.2	16	25	35	43										
						FTC gas		4.2	16	25	35	43										
						FTC liquid		4.2	16	25	27	27										
				300		FTO	16	6.5	25	39	53	65										
						FTC gas		6.5	25	39	53	65										
						FTC liquid		6.5	25	39	42	42										
				200		FTO	24	10	36	56	76	94										
						FTC gas		10	36	56	76	94										
FTC liquid						10	36	56	61	61												
				181		FTO	16	6.5	25	39	53	65										
200	300	7	7-24	850		FTO	1.5		3	5	7.5	10.5	12.5	15	17	20.5						
						FTC gas			3	5	7.5	10.5	12.5									
						FTC liquid			3	5	6	6	6									
				510		FTO	3	0.5	4.5	8	11.5	16	19.5	23.5	27.5	31						
						FTC gas		0.5	4.5	8	11.5	16	19.5									
						FTC liquid		0.5	4.5	8	9.5	9.5	9.5									
				340		FTO	5	1.5	7.5	14	19.5	25.5	31	37	42.5	48						
						FTC gas		1.5	7.5	14	19.5	25.5	31									
						FTC liquid		1.5	7.5	14	15	15	15									
						308		FTO	3	0.5	4.5	8	11.5	16	19.5	23.5	27.5	31				
		N.9	7-25	850		FTO	4.9	1.5	7.5	12	17	21										
						FTC gas		1.5	7.5	12	17	21										
						FTC liquid		1.5	7.5	12	13	13										
				510		FTO	7.5	2.7	12	19	26	32										
						FTC gas		2.7	12	19	26	32										
						FTC liquid		2.7	12	19	21	21										
				340		FTO	13	4.9	19	30	41	51										
						FTC gas		4.9	19	30	41	51										
FTC liquid						4.9	19	30	34	34												
				398		FTO	7.5	2.7	12	19	26	32										

FTO: Flow to open (liquid and gas) FTC: Flow to close

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

Shaft : 17-4 PH  
 Seat :PTFE/ Metal  
 Seat leakage : Class VI  
 Range : 7-24 & 7-25

Valve Size		Actuator		CV Flow to Open & Flow to Close	CV Differential Velocity Device Flow to Open	Flow Direction	Air to Open Flow to Open	Air to Open / Flow to Close or Air to Close / Flow to Open													
		Size	Range					Supply Pressure (bar)													
DN	in	in	psi					2.1	2.1	2.5	2.8	3.1	3.5	3.8	4.2	4.5	4.8	5.2			
250	10	7	7-24	1300		FTO				1	2.5	4	5	6.5	7.5	9	10.5	11.5			
						FTC gas			1	2.5	4	5	6.5	7							
						FTC liquid			1	2.5	3.5	3.5	3.5	3.5							
				780		FTO	1		2	4	6	8	10.5	12.5	14.5	16.5	18.5				
						FTC gas			2	4	6	8	10.5								
						FTC liquid			2	4	5	5	5								
				520		FTO	2		3.5	7	10.5	13	16.5	19.5	22.5	26	29.5				
						FTC gas			3.5	7	10.5	13	16.5								
						FTC liquid			3.5	7	8	8	8								
		486		FTO	1		2	4	6	8	10.5	12.5	14.5	16.5	18.5						
				FTC gas	2.3		3.9	6	9	12	15	18	19								
				FTC liquid			3.9	6	9	12	15	15									
		N.9	7-25	1300		FTO	3.8	1	6	10	13	19	22	28	29						
						FTC gas		1	6	10	13	19	22	23							
						FTC liquid		1	6	10	11	11	11	11							
				520		FTO	6.5	2.1	10	16	22	30	36	44	46						
						FTC gas		2.1	10	16	22	30	36	37							
						FTC liquid		2.1	10	16	18	18	18	18							
486				FTO	3.8	1	6	10	13	19	22	28	29								
				FTC gas	2.3		3.9	6	9	12	15	18	19								
				FTC liquid			3.9	6	9	12	15	15									
300	300	7	7-24	1750		FTO				1	1.5	3	3.5	4	5	6	6.5				
						FTC gas				1	1.5	3	3.5	4							
						FTC liquid				1	1.5	2	2	2							
				1050		FTO			0.5	2	3	4.5	5.5	7	7.5	9	10.5				
						FTC gas			0.5	2	3	4.5	5.5	6							
						FTC liquid			0.5	2	3	3	3	3							
				700		FTO	0.5		1.5	3.5	5.5	7.5	9	11	13	15	17				
						FTC gas			1.5	3.5	5.5	7.5	9	9.5							
						FTC liquid			1.5	3.5	5	5	5	5							
		684		FTO			0.5	2	3	4.5	5.5	7	7.5	9	10.5						
				FTC gas	1		1.9	3.4	4.9	6.5	8	10	11	13	15						
				FTC liquid			1.9	3.4	4.3	4.3	4.3	4.3	4.3								
		N.9	7-25	1750		FTO	1.8		3.2	5	7.5	10	12	15	18	20	23				
						FTC gas			3.2	5	7.5	10	12	13							
						FTC liquid			3.2	5	6.5	6.5	6.5	6.5							
				700		FTO	3.4		5.5	9	12	17	21	25	29	32	37				
						FTC gas			5.5	9	12	17	21	21							
						FTC liquid			5.5	9	10	10	10	10							
684		FTO	1.8		3.2	5	7.5	10	12	15	18	20	23								

FTO: Flow to open (liquid and gas) FTC: Flow to close

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

Shaft : 316 OR 316L  
 Seat : Metal / Metal  
 Seat leakage : Class IV  
 Range : 7 - 15

Valve Size		Actuator		CV Flow to Close	CV Flow to Open	CV Differential Velocity Device Flow to Open	Air to Close Flow to Close	Air to Open Flow to Open	Air to Open / Flow to Close or Air to Close / Flow to Open					
		Size	Range						Supply Pressure (bar)					
DN	in	in	psi				1.4	1.4	1.4	1.8	2.1	2.5	2.8	3.1
25	1	4 1/2	7-15	15	14		69	70	70					
				9	8.4		100	100	100					
				6	5.6		100	100	100					
				3			100	100	100					
				1			100	100	100					
				0.5			100	100	100					
40	1 1/2	4 1/2	7-15			5		100	100					
				39	33		100	46	29.5	55				
				23.4	19.8		100	69	44	95				
50	2	4 1/2	7-15	15.6	13.2		100	96.5	62	100				
						12.5		69	44	95				
				53	50		33	25	16	34.5	41.5			
				31.8	30		51	38.5	24	52.5	70			
80	3	6	7-15	21.2	20		69	51	32.5	70	70			
						18		38.5	24	52.5	70			
				145	135		18	19.5	12.5	26	41.5			
				87	81		28	29	18.5	40	64			
100	4	6	7-15	58	54		37	44	27.5	60	70			
						48		29	18.5	40	64			
				230			13.0	9.5	6	14	22	30.5	38.5	41.5
				138			22	15	9.5	20.5	38	46	59	70
				92			31	21.5	14	29.5	48	67	70	70
						77		15	9.5	20.5	38	46	59	70

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

Shaft : 316 OR 316L  
 Seat : Metal / Metal  
 Seat leakage : Class IV  
 Range : 7-24 & 7-25

Valve Size		Actuator		CV Flow to Open & Flow to Close	CV Differential Velocity Device Flow to Open	Flow Direction	Air to Close Flow to Close	Air to Open Flow to Open	Air to Open / Flow to Close or Air to Close / Flow to Open													
		Size	Range						Supply Pressure (bar)													
DN	in	in	psi				2.1	2.1	2.1	2.5	2.8	3.1	3.5	3.8	4.2	4.5	4.8	5.2				
150	6	7	7-24	500		FTO		6	3.5	9	14	20.5										
						FTC	9.5		3.5	9	14	20.5										
				300		FTO		9	5	12.5	20.5	27.5										
						FTC	15		5	12.5	20.5	27.5										
				200		FTO		14	7.5	19	31	41.5										
						FTC	21		7.5	19	31	34.5										
				181		9	5	12.5	20.5	27.5												
	N.9	7-25	500		FTO		16	9	22	24												
					FTC gas	22		9	22	24												
					FTC liquid	22		9	22	24												
			300		FTO		24	13	33	38												
					FTC gas	34		13	33	38												
					FTC liquid	34		13	33	38												
		200		FTO		36	20	49	55													
				FTC gas	49		20	49	55													
				FTC liquid	49		20	49	55													
					181		24	13	33	38												
		200	8	7	7-24	850		FTO		3	1.5	4	7	9.5	12.5	15						
FTC gas								4.8		1.5	4	7	9.5	12.5								
FTC liquid	4.8								1.5	4	6	6	6									
510						FTO		5	3	7	11	15	19	20.5								
						FTC gas	7.5		3	7	11	15	19									
						FTC liquid	7.5		3	7	9.5	9.5										
340				FTO		7.5	4	11	17	24	31	34.5										
				FTC gas	12		4	11	17	24	31											
				FTC liquid	12		4	11	15	15												
					308		5	3	7	11	15	19	20.5									
N.9	7-25			850		FTO		7.5	4.1	10	12											
						FTC gas	11		4.1	10	12											
			FTC liquid			11		4.1	10	12												
			510		FTO		11	6	16	18												
					FTC gas	17		6.0	16	18												
					FTC liquid	17		6.0	16	18												
340			FTO		19	10	26	30														
			FTC gas	27		10	26	30														
		FTC liquid	27		10	26	30															
			308		11	6	16	18														

FTO: Flow to open (liquid and gas) FTC: Flow to close

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



Shaft : 316 OR 316L  
 Seat : Metal / Metal  
 Seat leakage : Class IV  
 Range : 7-24 & 7-25

Valve Size		Actuator		CV Flow to Open & Flow to Close	CV Differential Velocity Device Flow to Open	Flow Direction	Air to Close Flow to Close	Air to Open Flow to Open	Air to Open / Flow to Close or Air to Close / Flow to Open																
		Size	Range						Supply (bar)																
DN	in	in	psi						2.1	2.1	2.1	2.5	2.8	3.1	3.5	3.8	4.2	4.5	4.8	5.2					
250	10	7	7-24	1300		FTO		1.5	1	2.5	4	5.5	7	8	9.5	11									
						FTC gas	2.8		1	2.5	4	5.5	7												
						FTC liquid	2.8		1	2.5	3.5	3.5													
				780		FTO		3	1.5	3.5	5.5	8	10.5	12.5	15	17									
						FTC gas	4.1		1.5	3.5	5.5	8	10.5												
						FTC liquid	4.1		1.5	3.5	5	5	5												
				520		FTO		4	2.5	6	9.5	13	16.5	20.5	24	27.5									
						FTC gas	6.5		2.5	6	9.5	13	16.5												
						FTC liquid	6.5		2.5	6	8	8	8												
		N.9	7-25	1300		FTO		3	1.5	3.5	5.5	8	10.5	12.5	15	17									
						FTC gas		4	2	5.5	8	10													
						FTC liquid	6		2	5.5	8	10													
				780		FTO		6	3.1	8.5	12	16													
						FTC gas	9		3.1	8.5	12	16													
						FTC liquid	9		3.1	8.5	11	11													
				520		FTO		10	5	14	20	26													
						FTC gas	15		5	14	20	26													
						FTC liquid	15		5	14	18	18													
486		FTO		6	3.1	8.5	12	16																	
		FTC gas		4	2	5.5	8	10																	
		FTC liquid	6		2	5.5	7.5	7.5																	
300	300	7	7-24	1750		FTO		1	1.5	2	3	4	5	5.5	6	7	8								
						FTC gas	1.4		1.5	2	3	4	4												
						FTC liquid	1.4		1.5	2	2	2	2												
				1050		FTO		1.5	0.5	2	3.5	5	6	7	8	9.5	11	12.5							
						FTC gas	2.4		0.5	2	3.5	5	6												
						FTC liquid	2.4		0.5	2	3	3	3												
				700		FTO		2.5	1.5	3.5	5.5	7.5	9.5	12.5	14.5	16.5	18.5	20.5							
						FTC gas	4.1		1.5	3.5	5.5	7.5	9.5												
						FTC liquid	4.1		1.5	3.5	5	5	5												
		684		FTO		1.5	0.5	2	3.5	5	6	7	8	9.5	11	12.5									
				FTC gas		2.1	1	3.1	4.6	6	8	9													
				FTC liquid	3.5		1	3.1	4.6	6	8	8.5													
		N.9	7-25	1750		FTO		1	3.1	4.3	4.3	4.3	4.3												
						FTC gas	3.5		1	3.1	4.6	6	8	8.5											
						FTC liquid	3.5		1	3.1	4.3	4.3	4.3	4.3											
				1050		FTO		3.3	1.5	4.7	7.0	9.5	12	14											
						FTC gas	5		1.5	4.7	7.0	9.5	12	13											
						FTC liquid	5		1.5	4.7	6.5	6.5	6.5	6.5											
700				FTO		5	2.5	7.5	11	15	21	23													
				FTC gas	8.5		2.5	7.5	11	15	21	21													
				FTC liquid	8.5		2.5	7.5	10	10	10	10													
684		FTO		3.3	1.5	4.7	7.0	9.5	12	14															

FTO: Flow to open (liquid and gas) FTC: Flow to close

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

**Shaft : 316 OR 316L**  
**Seat : PTFE / Metal**  
**Seat Leakage: Class VI**  
**Range : 7 - 15**

Valve Size		Actuator		CV Flow to Close	CV Flow to Open	CV Differential Velocity Device Flow to Open	Air to Open Flow to Open	Air to Open / Flow to Close or Air to Close / Flow to Open							
		Size	Range					Supply Pressure (bar)							
DN	in	in	psi					1.4	1.4	1.8	2.1	2.5	2.8	3.1	
25	1	4 1/2	7-15	15	14			55	55						
				9	8.4			70	70						
				6	5.6			70	70						
				5		70	70								
40	1 1/2			39	33			34.5	16	48					
				23.4	19.8			70	22	70					
				15.6	13.2			70	36	70					
				12.5		70	22	70							
50	2			53	50			17	6.5	25.5	41.5				
				31.8	30			36.5	9.5	36.5	65				
		21.2	20			36	16	51.5	70						
		18		36.5	9.5	36.5	65								
80	3	145	135			14	6	20.5	34.5						
		87	81			29	9	29	51						
		58	54			33	16	47	55						
		48		29	9	29	51								
100	4	230				7	2.5	11	18	25.5	33	34.5			
		138				14.5	3.5	14.5	26	37	49	55			
		92				16	7	22.5	39.5	55	55	55			
				77		14.5	3.5	14.5	26	37	49	55			

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

Shaft : 316 OR 316L  
 Seat : PTFE / Metal  
 Seat leakage : Class VI  
 Range : 7-24 & 7-25

Valve Size		Actuator		CV Flow to Open & Flow to Close	CV Differential Velocity Device Flow to Open	Flow Direction	Air to Open Flow to Open	Air to Open / Flow to Close or Air to Close / Flow to Open															
		Size	Range					Supply (bar)															
150	6	in	psi					2.1	2.1	2.5	2.8	3.1	3.5	3.8	4.2	4.5	4.8	5.2					
6	150	7	7-24	500		FTO	4	1.5	6	11.5	16.5												
						FTC		1.5	6	11.5	16.5												
				300		FTO	9	2	9	16.5	24												
						FTC		2	9	16.5	24												
				200		FTO	10.5	4	15	26	34.5												
						FTC		4	15	26	34.5												
						181		FTO	9	2	9	16.5	24										
		N.9	7-25	500		FTO	10	4.2	16	19													
						FTC gas		4.2	16	19													
						FTC liquid		4.2	16	19													
						FTO	16	6.5	25	29													
						FTC gas		6.5	25	29													
	FTC liquid						6.5	25	29														
	300				FTO	24	10	36	42														
					FTC gas		10	36	42														
					FTC liquid		10	36	42														
					FTO	16	6.5	25	29														
					FTC gas		6.5	25	29														
					FTC liquid		6.5	25	29														
					181		FTO	16	6.5	25	29												
	200	8	7	7-24	850		FTO	1.5		3	5	7.5	10.5	12.5									
							FTC gas			3	5	7.5	10.5	12.5									
							FTC liquid			3	5	6	6	6									
					510		FTO	3	0.5	4.5	8	11.5	16	19									
FTC gas								0.5	4.5	8	11.5	16	19										
FTC liquid								0.5	4.5	8	9.5	9.5	9.5										
340				FTO	5	1.5	7.5	14	19	25.5	31												
				FTC gas		1.5	7.5	14	19	25.5	31												
				FTC liquid		1.5	7.5	14	15	15	15												
						308		FTO	3	0.5	4.5	8	11.5	16	19								
N.9			7-25	850		FTO	4.9	1.5	7.5	9													
						FTC gas		1.5	7.5	9													
		FTC liquid					1.5	7.5	9														
		FTO				7.5	2.7	12	14														
		FTC gas					2.7	12	14														
		FTC liquid					2.7	12	14														
		510			FTO	13	4.9	19	22														
					FTC gas		4.9	19	22														
					FTC liquid		4.9	19	22														
					FTO	7.5	2.7	12	14														
					FTC gas		2.7	12	14														
					FTC liquid		2.7	12	14														
					308		FTO	7.5	2.7	12	14												

FTO: Flow to open (liquid and gas) FTC: Flow to close

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

Shaft : 316 OR 316L  
 Seat : PTFE / Metal  
 Seat leakage : Class VI  
 Range : 7-24 & 7-25

Valve Size		Actuator		CV Flow to Open & Flow to Close	CV Differential Velocity Device Flow to Open	Flow Direction	Air to Open Flow to Open	Air to Open / Flow to Close or Air to Close / Flow to Open																
		Size	Range					Supply Pressure (bar)																
DN	in	in	psi					2.1	2.1	2.5	2.8	3.1	3.5	3.8	4.2	4.5	4.8	5.2						
250	10	7	7-24	1300		FTO				1	2.5	4	5	6.5	7.5	9								
						FTC gas			1	2.5	4	5	6.5	7										
						FTC liquid			1	2.5	3.5	3.5	3.5	3.5										
				780		FTO	1		2	4	6	8	10.5	12.5	14.5									
						FTC gas			2	4	6	8	10.5											
						FTC liquid			2	4	5	5	5											
				520		FTO	2		3.5	7	10.5	13	16.5	19.5	22.6									
						FTC gas			3.5	7	10.5	13	16.5											
						FTC liquid			3.5	7	8	8	8											
		N.9	7-25	1300		FTO	2.3		3.9	6	8.5													
						FTC gas			3.9	6	8.5													
						FTC liquid			3.9	6	7.5													
				780		FTO	3.8	1	6	10	13													
						FTC gas		1	6	10	13													
						FTC liquid		1	6	10	11													
				520		FTO	6.5	2.1	10	16	21													
						FTC gas		2.1	10	16	21													
						FTC liquid		2.1	10	16	18													
486		1300		FTO	3.8	1	6	10	13															
				FTC gas			6	10	13															
				FTC liquid			6	10	11															
		780		FTO	3.8	1	6	10	13															
				FTC gas			6	10	13															
				FTC liquid			6	10	11															
		520		FTO	6.5	2.1	10	16	21															
				FTC gas		2.1	10	16	21															
				FTC liquid		2.1	10	16	18															
300	300	7	7-24	1750		FTO				1	1.5	3	3.5	4	5	6	6.5							
						FTC gas				1	1.5	3	3.5	4										
						FTC liquid				1	1.5	2	2	2										
				1050		FTO			0.5	2	3	4.5	5.5	7	7.5	9	10.5							
						FTC gas			0.5	2	3	4.5	5.5	6										
						FTC liquid			0.5	2	3	3	3	3										
				700		FTO	0.5		1.5	3.5	6.5	7.5	9	11	13	15	17							
						FTC gas			1.5	3.5	5.5	7.5	9	9.5										
						FTC liquid			1.5	3.5	5	5	5	5										
		684		1750		FTO			0.5	2	3	4.5	5.5	7	7.5	9	10.5							
						FTC gas			1.9	3.4	4.9	6.5	7.5											
						FTC liquid			1.9	3.4	4.3	4.3	4.3											
				1050		FTO	1.8		3.2	5	7.5	10	11											
						FTC gas			3.2	5	7.5	10	11											
						FTC liquid			3.2	5	6.5	6.5	6.5											
				700		FTO	3.4		5.5	9	12	17	19.1											
						FTC gas			5.5	9	12	17	19.1											
						FTC liquid			5.5	9	10	10	10											
684		1750		FTO	1.8		3.2	5	7.5	10	11													
				FTC gas			3.2	5	7.5	10	11													
				FTC liquid			3.2	5	6.5	6.5	6.5													

FTO: Flow to open (liquid and gas) FTC: Flow to close

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