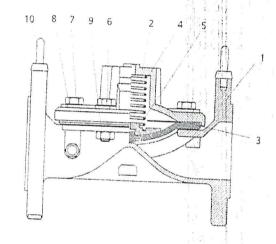
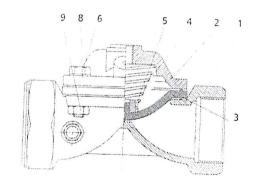
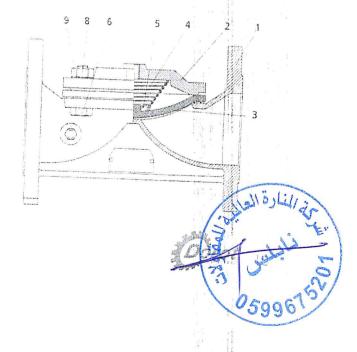


Components

Component No.	Description	
1	Body	
2	Bonnet	
3	Diaphragm	
4	Spring	
. 5	Spring Disc	
6	Bolt	
7	Short Bolt	
8	Washer	
9	Nut	- 344
10	Suspension Ring (Hook)	







# Technical Data

Available Models:

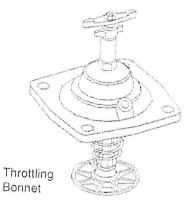
	Patte		局的	稳		色	图		4	1		M	i Da	e Eller
- (	Conne	ction	Threaded	Threaded	Victaulic®	Flanged	Flanged	Flanged	Flanged	Threaded	Victaulic®	5.33	- T	\$100 months
	Mater		Cast Iron	Bronze	Cast Iron	Cast Iron	Bronze	Ductile Iron				Threaded	Flanged	Threade
Ма	ix. Pre	ssure							Cast non	Cast Iron	Cast Iron	Bronze	Ductile Iron	Ductile In
	mm			1	T		10 Dar /	230 psi				-	25 bar /	1
	20	3/4"		•									2000	000 psi
	25	1"												<del></del>
	40	11/2"	0	0		•								<del></del>
	50	2"	0	9	0		•	•		0		8		
	65	21/2"	9				•	•		e e		•		
	80	323"	•	0				•						†
es	80	3"	0					•		•				<del> </del>
Siz	100	4"			0		•		9	•	•			
Available Sizes	150	6"				•	•		8		•		0	
Val	200	868*					•	0	0					<del></del>
4	200	8*				-	•	•						<del> </del>
	250	10"					•	•				-		
	300	12"				•	9	4						<del></del>
	350	14"				0	•	0						
	400	16"					•					-	1 11 11	10-0-
	450	18°						•						<del> </del>
	500	20"						•						
	600	24'						•						1

Design Specifications:

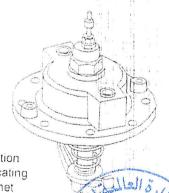
Materials	Slandard	Optional*
Body and Bonnet	Cast Iron, Ductile Iron, Bronze	Cast Steel, Stainless Steel
Diaphragm	Natural Rubber	NBR, EPDM, Neoprene
Spring	SST 302	SST 316
Nuts and Bolts	Coated Steel	SST
Coating	Polyester	Epoxy, Nylon, Rubber

Connections	Standard	Optional*
Flanges	ISO 2084, 2441, 5752	ANSI B16 JIS B22 AS 10
Threads	F-BSP	F-NPT
Control Bores	1/8",1/4",1/2" NPT	Epoxy, Nylon, Rubber

Non Standard Bonnets:









<sup>\*</sup> Others Upon Request

Diaphragm Selection Table\*

	Diameter	Type			
mm	inch	7,700	No.	Pre	ssure Range
20, 25	3/4*, 1*	Standard Low Pressure	18	mwc 12-160	psi 17-230
40	11/2"	Standard S. Low Pressure	85 13	5-100 12-160	7-140 7-230
50, 65	2", 21/2", 323"	Standard Low Pressure S. Low Pressure Extreme	82 03 02 12	5-50 15-160 7-100 4-50	7-70 21-230 10-140 6-70
50нр	2°нр	High Pressure	60	20-160	28- <b>2</b> 30
80, 100	3*, 4*	Standard Low Pressure Extreme	69 32 05	10-250 12-160 4-100	15-360 17-230
80HP	3"HP	High Pressure	61	20-160	6-140
100 <sub>HP</sub>	4° <sub>HP</sub>	High Pressure	70	10-250	28-230 15-360
150	6*, 868	Standard Low Pressure S. Low Pressure Extreme	71 62 09 91	10-250 15-160 5-100 2-60	15-360 21-230 7-140
150 <sub>HP</sub>	6°нр	High Pressure	35	20-160	3-85 28-230
0. 300, 350	8", 12", 14"	Standard Low Pressure Extreme	72 35 37	10-250 7-160 2-100	26-230 15-360 10-230 3-440
200 <sub>HP</sub>	8"HP	High Pressure	63	20-160	28-230
250 p, 400 <sub>HP.</sub>	10"	Standard Low Pressure	73 40 50	10-250 7-160 2-100	15-360 10-230
ня, 400ня, ня, 600ня	10°нр, 16° <sub>НР,</sub> 20° <sub>НР,</sub> 24° <sub>НР,</sub>	High Pressure Low Pressure	78 92	10-250 2-100	3-140 15-360

<sup>\*</sup> Standard Diaphragm: Nylon Reinforced Natural Rubber. Optional Materials: Nitrile, EPDM, Neoprene Available Upon Request. \*\* HP = High Pressure

Pressure Rating
Pressure rating of series 100 valves is body strength, connection standard and diaphragm type.
Pressure rating of valve body of standard models: 16 Bar / 230 psi.
Pressure rating of valve body of high pressure models: 25 Bar / 360 psi.
Connection standard is marked on the identification plate, assembled on the valve body.
Diaphragms operation pressure range is presented at the above table.



## SERIES 100

## Technical Data

Dimensions and Weights



Straight Flow, Threaded Connection

Valve	e Size	Can	t Iron	1				H T			D		14/		Wei	ght	
mm	inch			-	onze	Cas	t Iron	Bri	onze		U		W	Cast	Iron	6,	
20	7/	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch		-++-+		onze
	· · /4	115	4.53	112	4.41	43	1.69	43	1.69	20	0.79	1		kg	lbs	kg	, lb
25	1	120	4.72	119	4.69	52	2.05	52				68	2.68	1	2,2	1	2.
40	11/2	170	6.69	149	5.87	93			2.05	24	0.94	68	2.68	1	2.2	1	2.
50	2	188	7.4	184			3.66	86	3.39	33	1.3	93	3.66	2.2	4.9	1.8	
65	21/2				7.24	115	4.53	101	3.98	42	1.65	112	4.41	3.2	12	. 5	4 7
		219	8.62	212	8.35	118	4.65	109	4.29	46	1.81	112	4.41		1111	2.6	5.
80 <sub>LF</sub> *	323	225	8.86	221	8.7	126	4.96	116	4.57	54				3.6	7.9	3.4	7:
80	3	316	12.44	316	12,44	135	5.31	135	5.31	53	2.13	112 200	4.41	4.5	9.9	3.9	8.

<sup>\*</sup> LF = Low Flow

Straight Flow, Grooved Connection (Vic.)

	Size	<u> </u>			Н		D	T	W.	W	eight
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	ka	lbs
40	1.5	177	6.97	81	3.19	26	1.02	93	3.66	1.8	105
50	2	190	7.48	100	3.94	33	1.3	112	4.41	2.6	- 4
80	323	201	7.91	120	4.72	47	1.85	112	4.41	2.0	5.7
80 <sub>LF</sub>	3	266	11.26	124	4.88	47	1.85	200		<u> </u>	6.6
100	4	317	12.48	133	5.24	60			7.87		24.3
150	6	392	15.43				2.36	194	7.64	12	26.4
		0.72	10.40	250	9.84	82	3.23	300	11.81	31	68.3



Angle Flow, Grooved Connection (Vic.)

	Size	Н			D	1	N	We	Weight		
min	inch	mm	inch	mm	inch	mm	inch	ka	lbs		
80	3	240	9.45	170			7.97	10.5			
100	4	250		185	7.28	200	7.07	10.3	23.		

Angle Flow, Threaded Connection

		Н	a ti	D		W	Weight	
inch	mm	inch	mm	inch	mm	inch	ko	lho
1.5	110	4.33	75	2.95	93	3.66	1.7	IDS
2	136	5.35	90	3 54	112		1.7	3.7
323	165	6.5	114				2.4	0.3
3	239	9.41	145	5.71	200	7.87	3.5	7.9
	Size inch 1.5 2 323 3	inch mm 1.5 110 2 136 323 165	inch         mm         inch           1.5         110         4.33           2         136         5.35           323         165         6.5	inch         mm         inch         mm           1.5         110         4.33         75           2         136         5.35         90           323         165         6.5         114	inch         mm         inch         mm         inch           1.5         110         4.33         75         2.95           2         136         5.35         90         3.54           323         165         6.5         114         4.49	inch         mm         inch         mm         inch         mm           1.5         110         4.33         75         2.95         93           2         136         5.35         90         3.54         112           323         165         6.5         114         4.49         112           3         320         90         3.54         112	inch         mm         inch         mm         inch         mm         inch           1.5         110         4.33         75         2.95         93         3.66           2         138         5.35         90         3.54         112         4.41           323         165         6.5         114         4.49         112         4.41	inch         mm         inch         mm         inch         mm         inch         kg           1.5         110         4.33         75         2.95         93         3.66         1.7           2         136         5.35         90         3.54         112         4.41         2.4           323         165         6.5         114         4.49         112         4.41         3.6



Angle Flow, Flanged Connection

	Size		Н		D		N	Weight		
mm	inch	mm	inch	mm	inch	mm	inch	ko	Ihs	
80	3	278	10.9	174	6.85	200	7.87	10	39.7	
100	4	300	11.8	185	7.28		9.06	10		
150	6	380	15	230	9.06	300	11 8	Z1	46.3 99.2	



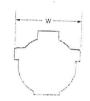


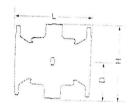


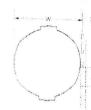
Straight Flow, Flanged Connection - Standard Models 16 Bar / 230 psi

Valve	e Size		L		Н		D		W			We	eight .		
mm	inch	mm	inch	mm	T			ļ		Cas	st Iron	Duc	t. Iron	Bro	nze
40	11/2	186	7.32	mm	inch	mm	inch	mm	inch	kg	lbs	kg	lbs	kg	
50	2	200		153	6.02	76.5	3.01	76.5	3.01	5.8	13	6.2	14	-	lbs
80 <sub>LF</sub>	323		7.87	166	6.54	85	3.35	166	6.54	7.2	15.8	7.7		6.5	14.
80		200	7.87	202	7.95	105	4.13	200	7.87	111	24.3		17	18	17.
	3	285	11.22	200	7.87	105	4.13	200	7.87	17		11.8	26		
100	4	305	12.01	230	9.06	110	4.33	230			37.5	18.2	40.1	19 .	- 42
150	6	390	15.35	314	12.36	145	5.71	300	9.06	22	48.5	24	53	24	53
00 <sub>LF</sub>	868	385	15.16	350	13.78	170	6.69		11.8	46	101	49	108	51	112
200	8	460	18.11	400	15.75	170		365	. 14.4	50	110	54	119		
250	10	535	21.06	445	1		6.69	365	14,4	80	176	86	190	89	196
100	12	580	22.83		17.52	205	8.07	440	17.3	117	258	125	276	131	289
50	14		- 1	495	19,49	240	9.45	490	19.3	156	344	167	368	TOTAL MARKET	
100		580	22.83	495	19.49	270	10.6	540	21.3	182	401	172	379	180	324









Straight Flow, Flanged Connection - High Pressure Models 25 Bar / 360 psi

Valve	Size		L		H		n	T		T-H	
mm	inch	mm	inch	mm	inah		<u> </u>		W	We	ght
50	2	228	8.98		inch	mm	inch	mm	inch	kg	1bs
50тн	7-	1		169	6.65	85	3.35	175	6.9	110	22
	2111	250	8.98	120	6.65	42	1.65	175	6.9	100	
80	3	310	12.2	237	9.33	105	4.13			10	13
100	4	356	14.02	263	10.35	120		200	7.87	30	66.1
150	6	436	17,17	378		1000	4.72	260	10.24	38	83.8
200	8	530	20.87		14.88	150	5.91	320	12.6	75	165.
250	10		10.000	481	18.94	180	7.09	400	15.75	123	271
400		636	25.04	546	21.5	215	8.46	495	19.49	190	
	16	715	28.15	830	32.68	310	12.2	830	32.68	I tel tel tel tel	419
450	18	715	28.15	830	32.68	340	13.39			433	955
500	20	900	35.43	970	38.19	490		830	32.68	460	1014
600	24	900	35.43	970	38.19		19.29	980	38.58	674	1486
			VC.40	310	30.19	490	19.29	980	38.58	696	1534

\*TH = Threaded







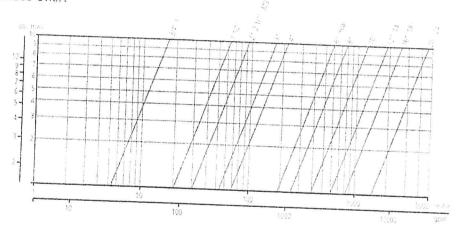


## Technical Data

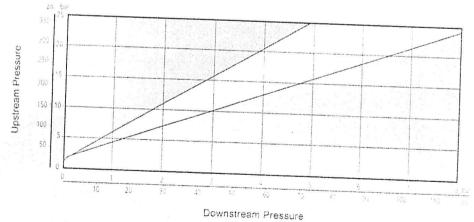
Hydraulic Performance

Valve Size		mm	20	25	40	50	65	80	80, F	1 100	1.50	7							13	× 21 1
		inch	3/4	1	11/2	2	21/2	323	1	100	150	200 <sub>LF</sub>	200	250	300	350	400	450	500	600
Max. Flow Continuance		m³/hr	6	10	25	40	40		3	4	6	868	8	10	12	14	16	118	20	24
		gpm	26.4	44	110	176	176	40	90	100	350	350	480	970	1400	1400	2500	2500	3890	
Max. Flow Intermittent		m <sup>3</sup> /hr	16	27	68	109		176	396	440	1540	1540	2112	4268	6160	6160	11000	11000	17.116	5500
		gpm	72	120	300	480	109	109	245	273	955	955	1309	2645	3818	3818	6818	6818	10609	2420
Minimal Flow		m³/hr		120	300	400	480	480	1080	1200	4200	4200	5760	11640	16800	16800	30000	30000	46680	10609
		gpm			-		-				<	1						00000	40000	46680
⟨v	m³/hr @ 1 bar		17 17 64 95 95 95 170 520 625																	
Ov gpm @			20	20	75	110	95	95	170	220	600	670	800	1250	1900	1900	2600	2600	7000 T	1000
(v* m³/hr @		-			-13		110	110	200	260	700	780	930	1460	2220	2220	3030		4600	4600
Ov' gpm @						78	-	.	120	200	550	-	800	1300				3030	5370	5370
		i hai l				91	-	-	140	230	640		930				2600	2600	4600	4600
	ressure n												000	1520	- 1	- 1	3030	3030	5370	5370

#### Headloss Chart



#### Cavitation Data



Cavitation zone

Safe zone for Bronze valves

Safe operation zone





