



COMERCIAL **MATE**

CATÁLOGO 2024



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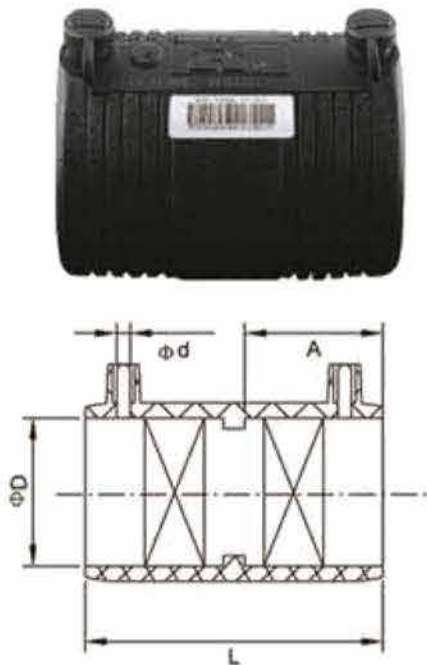
Somos especialistas en la importación, comercialización y fabricación de productos y soluciones para la Industria y Minería.

Contamos con una red de proveedores líderes en su rubro a nivel mundial regidos por estrictas normas de calidad y certificación.

Trabajamos comprometidos en apoyar a nuestros clientes entregando soluciones rápidas y eficientes con una atención profesional y personalizada.

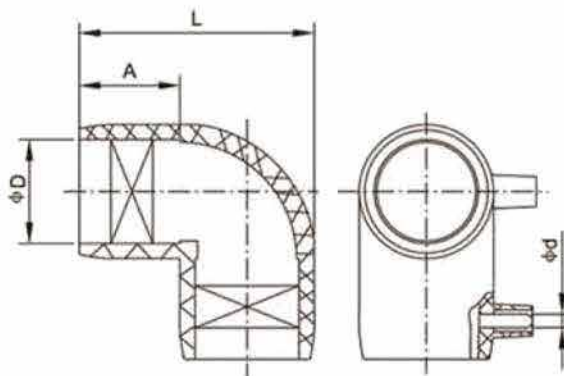


Copla



Diámetro (mm) D	L	A	d
20	85	40	4.7
25	90	43	4.7
32	90	44	4.7
40	95	45	4.7
50	105	50	4.7
63	110	50	4.7
75	135	65	4.7
90	130	63	4.7
110	150	70	4.7
125	165	80	4.7
140	170	80	4.7
160	180	85	4.7
180	210	100	4.7
200	205	100	4.7
225	220	105	4.7
250	215	105	4.7
315	225	110	4.7
355	265	130	4.7
400	310	150	4.7
500	370	180	4.7

Codo 90°

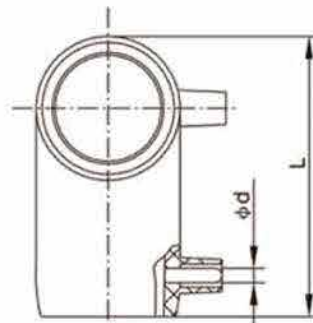
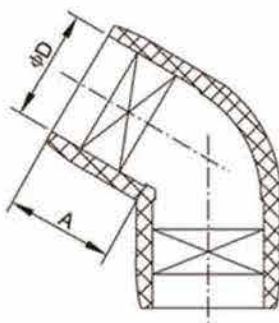


Diámetro (mm) D	L	A	d
25×90°	85	45	4.7
32×90°	95	45	4.7
40×90°	95	50	4.7
50×90°	110	50	4.7
63×90°	130	55	4.7
75×90°	155	60	4.7
90×90°	170	65	4.7
110×90°	195	70	4.7

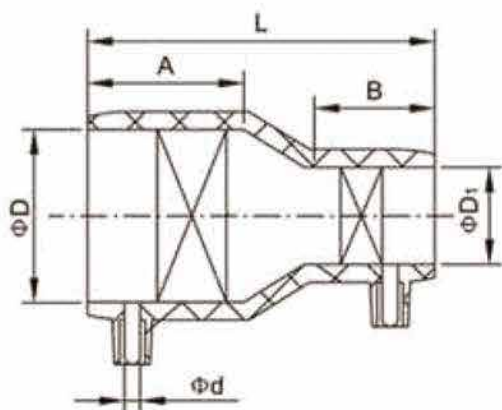
Diámetro (mm) D	L	A	d
125×90°	225	80	4.7
160×90°	265	80	4.7
180×90°	295	85	4.7
200×90°	330	102	4.7
250×90°	395	113	4.7
315×90°	485	129	4.7
400×90°	590	140	4.7

Codo 45°

Diámetro (mm) D	L	A	d
50×45°	130	50	4.7
63×45°	180	63	4.7
90×45°	230	83	4.7
110×45°	270	90	4.7
160×45°	280	85	4.7
200×45°	330	100	4.7
250×45°	420	115	4.7
315×45°	470	130	4.7
400×45°	580	140	4.7

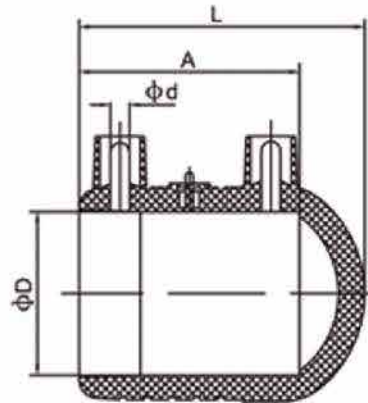


Reducción



Diámetro (mm) D x D1	L	A	B	d
25×20	95	45	35	4.7
32×20	95	45	45	4.7
32×25	95	40	45	4.7
40×25	100	50	40	4.7
40×32	100	50	40	4.7
50×25	110	55	40	4.7
50×32	110	55	40	4.7
50×40	110	50	50	4.7
63×25	115	60	40	4.7
63×32	120	60	40	4.7
63×40	120	55	40	4.7
63×50	120	55	50	4.7
75×50	120	65	50	4.7
75×63	130	65	50	4.7
90×50	140	65	55	4.7
90×63	140	65	55	4.7
90×75	145	65	60	4.7
110×63	160	75	55	4.7
110×75	155	75	60	4.7
110×90	155	75	65	4.7
125×63	160	80	60	4.7
125×90	160	80	70	4.7
125×110	165	85	69	4.7
160×90	195	94	74	4.7
160×110	195	95	75	4.7
160×125	195	95	75	4.7
200×110	210	95	80	4.7
200×160	210	95	85	4.7
250×110	230	100	80	4.7
250×160	230	110	90	4.7
250×200	230	110	100	4.7
315×200	240	100	100	4.7
315×250	240	100	100	4.7
400×250	260	110	105	4.7
400×315	260	110	105	4.7

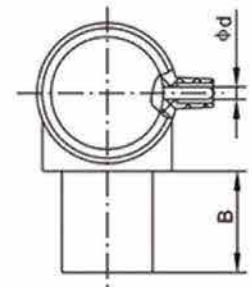
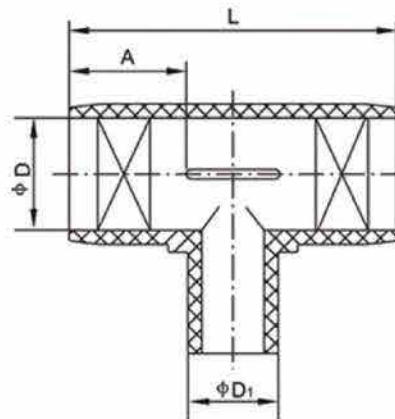
Tapón



Diámetro (mm) D	L	A	d
32	60	45	4.7
40	70	55	4.7
50	70	55	4.7
63	80	55	4.7
90	95	55	4.7
110	105	70	4.7

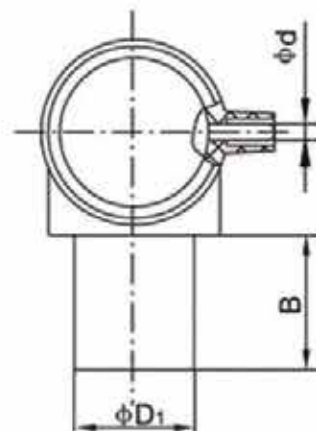
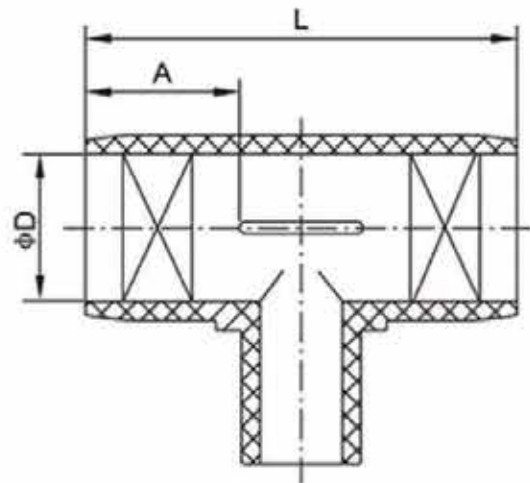
Tee

Diámetro (mm) D x D1 x D	L	A	B	d
20x20x20	100	40	50	4.7
25x25x25	105	45	50	4.7
32x32x32	120	45	55	4.7
40x40x40	125	45	60	4.7
50x50x50	145	55	60	4.7
63x63x63	165	55	60	4.7
75x75x75	195	70	70	4.7
90x90x90	210	65	75	4.7
110x110x110	240	75	80	4.7
125x125x125	255	80	85	4.7
160x160x160	310	90	95	4.7
180x180x180	340	100	95	4.7
200x200x200	360	100	105	4.7
250x250x250	410	100	115	4.7
315x315x315	520	125	115	4.7
400x400x400	600	125	115	4.7



Tee Reducción

Díametro (mm) $D \times D_1 \times d$	L	A	B	d
25×20×25	105	45	50	4.7
32×20×32	120	45	50	4.7
32×25×32	120	45	50	4.7
40×25×40	125	45	55	4.7
40×32×40	125	45	55	4.7
50×25×50	145	50	50	4.7
50×32×50	144	50	55	4.7
50×40×50	145	55	55	4.7
63×25×63	130	55	55	4.7
63×32×63	136	50	55	4.7
63×40×63	143	50	55	4.7
63×50×63	164	55	55	4.7
75×32×75	195	70	70	4.7
75×40×75	195	70	70	4.7
75×50×75	195	70	70	4.7
75×63×75	195	70	65	4.7
90×32×90	210	70	80	4.7
90×40×90	210	70	80	4.7
90×50×90	210	70	80	4.7
90×63×90	210	70	80	4.7
90×75×90	210	70	75	4.7
110×32×110	240	75	80	4.7
110×40×110	240	75	80	4.7
110×50×110	240	75	80	4.7
110×63×110	240	75	80	4.7
110×75×110	240	75	80	4.7
110×90×110	240	75	80	4.7
125×90×125	255	80	85	4.7
125×110×125	255	80	85	4.7
160×63×160	305	90	90	4.7
160×75×160	305	90	90	4.7
160×90×160	305	90	90	4.7
160×110×160	305	90	90	4.7
160×125×160	305	90	80	4.7
200×90×200	355	100	75	4.7
200×110×200	355	100	75	4.7
200×160×200	355	100	90	4.7
250×110×250	405	100	95	4.7
250×160×250	405	100	110	4.7
250×200×250	405	100	110	4.7
315×110×315	520	125	95	4.7
315×160×315	520	125	95	4.7
315×200×315	520	125	110	4.7
315×250×315	520	125	110	4.7
400×110×400	600	125	115	4.7
400×160×400	600	125	115	4.7
400×200×400	600	125	115	4.7
400×250×400	600	125	115	4.7
400×315×400	600	125	115	4.7



Kit arranque domiciliario en carga HE o HI

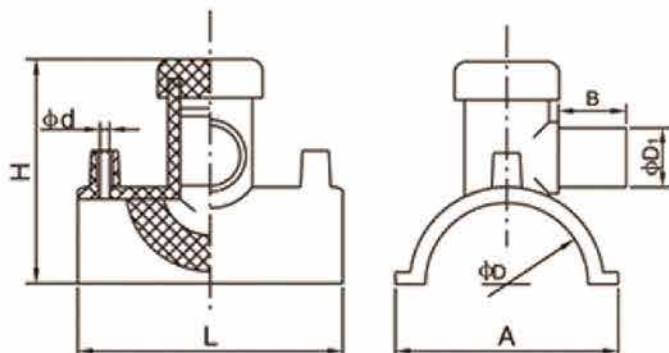


Diámetro D (mm) x D1 (pulg)
110 x 1/2"
110 x 3/4"
110 x 1"
160 x 1/2"
160 x 3/4"
160 x 1"

Arranque autoperforante (Tapping Tee)



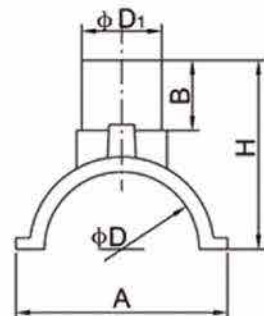
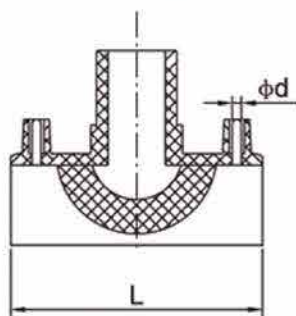
Diámetro (mm) D x D1	L	A	E	H	d
90x63	140	130	75	185	4.7
110x20	130	155	55	145	4.7
110x25	130	155	55	145	4.7
110x32	130	155	55	145	4.7
110x63	145	160	75	175	4.7
160x63	190	240	85	225	4.7
160x90	190	240	160	225	4.7
200x63	190	255	85	215	4.7
200x90	190	255	160	215	4.7
250x63	190	265	85	215	4.7
250x90	190	265	160	215	4.7
315x63	190	310	85	240	4.7
315x90	190	310	160	240	4.7



Arranque Simple (Spigot Saddle)

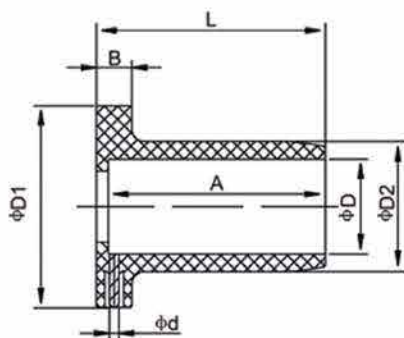


Diámetro (mm) D x D1	L	A	B	H	d
90x63	145	155	80	145	4.7
110x63	145	160	80	145	4.7
160x63	190	230	100	185	4.7
160x90	190	230	100	185	4.7
200x63	190	235	110	185	4.7
200x90	190	235	115	195	4.7
250x63	190	300	115	195	4.7
250x90	190	300	115	195	4.7
315x63	190	300	115	195	4.7
315x90	190	300	120	200	4.7



Stub End E/F

Diámetro (mm) D	D1	D2	L	A	B	d
50	89	66	116	110	17	4.7
63	102	81	120	115	18	4.7
75	121	96	130	125	20	4.7
90	139	111	145	140	23	4.7
110	174	144	150	145	25	4.7
160	229	193	160	152	28	4.7
200	289	235	179	174	30	4.7
250	340	285	135	128	32	4.7
315	395	350	138	130	33	4.7
400	510	430	160	153	33	4.7



Transición Electrofusión HE



Transición Electrofusión HI



Diámetro	
mm	Pulgadas
20	1/2"
25	3/4"
32	1"
40	1 1/4"
50	1 1/2"
63	2"
75	2 1/2"
90	3"
110	4"

Transición HE Termofusión

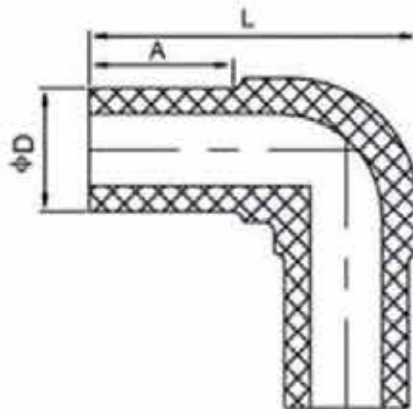


Transición HI Termofusión



Diámetro	
mm	Pulgadas
20	1/2"
25	3/4"
32	1"
40	1 1/4"
50	1 1/2"
63	2"
75	2 1/2"
90	3"
110	4"

Codo 90°



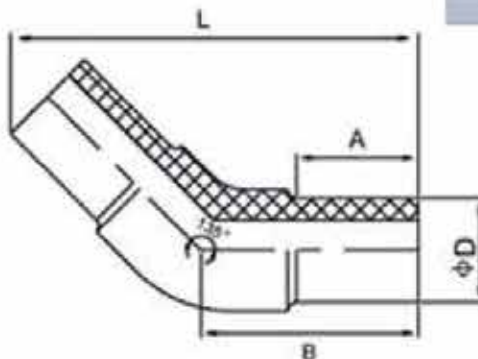
Diámetro (mm) D	L	A
50×90°	120	55
63×90°	133	63
75×90°	163	70
90×90°	182	79
110×90°	214	82
125×90°	240	87
140×90°	244	88
160×90°	258	80
180×90°	297	97
200×90°	308	97
225×90°	367	115
250×90°	362	100
280×90°	433	130
315×90°	460	125
355×90°	540	150
400×90°	600	180



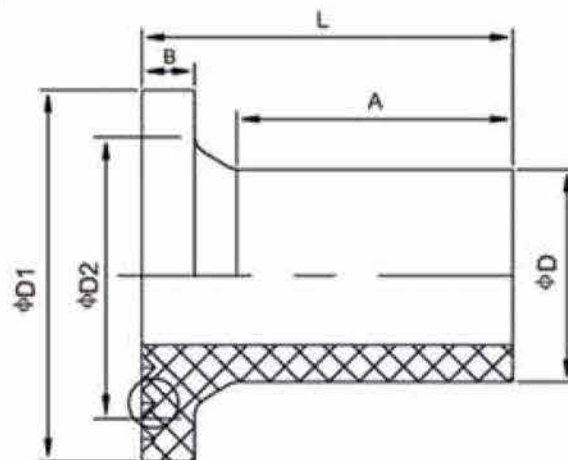
Codo 45°



Diámetro (mm) D	L	A	B
63×45°	160	63	79
75×45°	180	70	89
90×45°	228	79	114
110×45°	246	82	118
125×45°	248	87	115
160×45°	310	98	138
180×45°	340	100	159
200×45°	355	112	167
225×45°	398	120	173
250×45°	420	129	192
315×45°	510	150	220



Stub End



Stub End (ANSI)

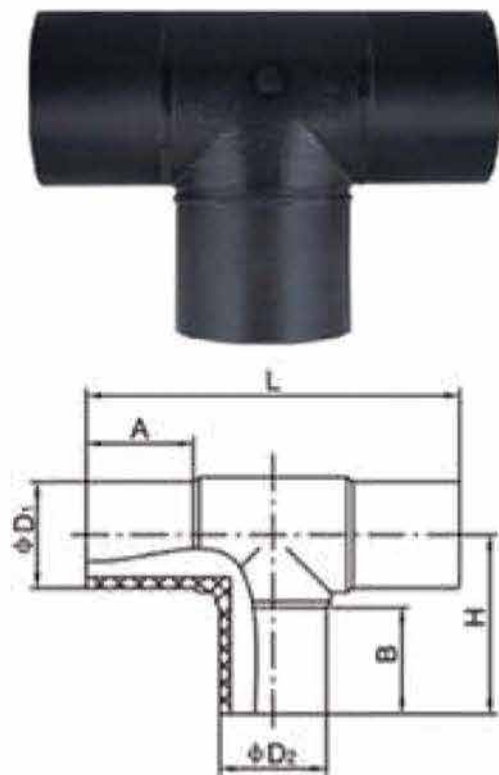


Diámetro
2"
3"
4"
6"
8"
10"
12"
14"
16"
18"
20"
24"

Diámetro (mm) D	D1	L	A	B
20	44	83	62	7
25	44	83	61	8
32	67	83	62	10
40	77	78	61	12
50	87	88	71	12
63	101	88	70	12
75	121	94	75	13
90	137	98	76	18
110	158	106	81	18
125	158	130	103	21
140	187	128	99	22
160	212	135	104	26
180	212	137	101	29
200	268	154	113	34
225	267	144	108	29
250	320	156	120	29
280	323	168	128	35
315	370	173	133	33
355	432	173	132	33
400	482	182	132	32
450	525	185	129	47
500	580	211	144	47
560	685	180	125	47
630A	685	205	145	50
630	720	205	145	50
710	800	185	110	56
800	905	185	110	56
900	1005	185	110	56
1000	1100	185	110	56
1200	1330	170	100	60

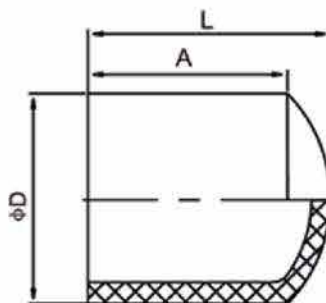
Tee

Diámetro (mm) D1 x D2 x D1	L	A	B	H
50x50x50	170	55	55	82
63x63x63	200	63	63	104
75x75x75	230	70	70	114
90x90x90	260	79	79	133
110x110x110	290	82	82	145
125x125x125	315	87	87	160
140x140x140	345	92	92	170
160x160x160	325	75	75	170
180x180x180	420	105	105	225
200x200x200	377	75	84	200
225x225x225	484	120	120	230
250x250x250	517	120	120	265
280x280x280	590	140	140	300
315x315x315	615	130	125	310
355x355x355	630	120	120	350
400x400x400	670	120	120	360

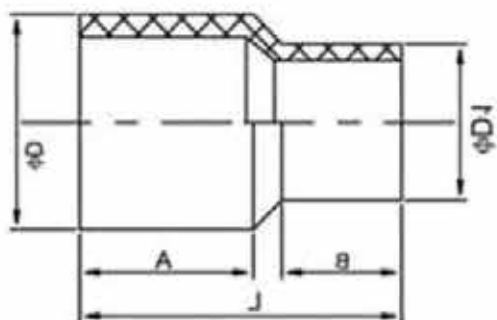


Tapón

Diámetro (mm) D	L	A
20	45	41
25	46	41
32	51	45
40	87	67
50	90	66
63	77	63
75	84	70
90	92	79
110	97	82
125	112	87
160	119	98
180	145	110
200	147	112
225	155	118
250	186	128
315	190	150
355	215	155
400	220	160
500	240	190
630	240	190



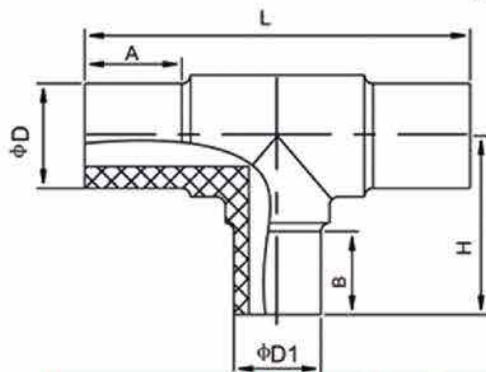
Reducción



<i>Diámetro (mm)</i> <i>D x D1</i>	<i>L</i>	<i>A</i>	<i>B</i>
63X25	139	63	55
63X32	147	63	55
63X40	141	63	55
63X50	150	63	55
75X32	149	70	55
75X50	143	70	55
75X63	150	70	63
90X32	163	79	55
90X40	162	79	55
90X50	161	79	55
90X63	168	79	63
90X75	169	79	70
110X40	169	82	55
110X50	166	82	55
110X63	173	82	63
110X75	181	82	70
110X90	177	82	79
125X63	189	87	63
125X90	183	87	79
125X110	185	87	82
140X90	224	92	79
140X110	220	92	82
160X32	202	98	70
160X63	195	98	63
160X75	204	98	70
160X90	212	98	79
160X110	211	98	82

<i>Diámetro (mm)</i> <i>D x D1</i>	<i>L</i>	<i>A</i>	<i>B</i>
160X125	216	98	87
180X90	231	110	79
180X110	219	110	82
180X125	233	105	87
180X160	229	105	87
200X63	210	112	63
200X90	220	108	79
200X110	228	112	82
200X125	220	112	90
200X160	226	112	85
200X180	245	112	105
225X90	226	105	79
225X110	245	105	82
225X160	249	105	90
225X180	249	105	90
225X200	246	105	90
250X90	224	112	79
250X110	221	108	82
250X125	234	109	87
250X160	244	110	98
250X180	237	110	105
250X200	250	110	103
250X225	231	105	90
280X160	257	107	85
280X225	247	110	85
280X250	247	110	90
315X90	240	115	79
315X110	241	115	82
315X160	254	115	98
315X180	253	115	100
315X200	253	115	92
315X225	245	115	90
315X250	246	115	90
355X200	270	100	100
355X250	270	100	100
355X280	260	100	100
355X315	240	100	100
400X200	260	100	100
400X250	250	100	100
400X315	250	100	100
400X355	250	100	100
450X200	260	100	100
450X250	260	100	100
450X315	250	100	100
450X355	250	100	100
450X400	240	100	100
500X400	250	100	100
500X450	250	100	100
560X500	260	100	100
630X500	260	100	100
710X630	250	100	100
800X710	250	100	100

Tee Reducción



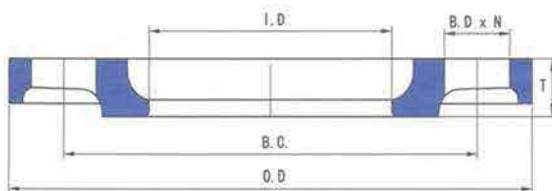
Díámetro (mm) D x D1 x D	L	A	B	H
50X32X50	165	55	55	81
63X25X63	168	63	45	85
63X32X63	172	63	45	87
63X40X63	180	63	50	93
63X50X63	190	63	55	96
75X32X75	180	70	39	90
75X40X75	205	70	45	93
75X50X75	205	70	55	100
75X63X75	225	70	63	107
90X32X90	215	79	45	105
90X40X90	220	79	50	108
90X50X90	230	79	55	110
90X63X90	245	79	63	118
90X75X90	252	79	70	126
110X32X110	220	82	50	115
110X40X110	230	82	50	119
110X50X110	238	82	55	123
110X63X110	250	82	63	118
110X75X110	264	82	70	137
110X90X110	275	82	79	135
125X63X125	320	87	63	143
125X75X125	314	87	70	152
125X90X125	309	87	79	151
125X110X125	318	87	82	160
140X110X140	315	92	82	164
140X125X140	330	92	87	167
160X63X160	275	98	63	153
160X75X160	287	98	70	167
160X90X160	300	98	79	175
160X110X160	325	98	82	175
160X125X160	335	98	87	181
160X140X160	345	98	92	186
180X90X180	338	105	79	181
180X110X180	355	105	82	187
180X125X180	365	105	87	191
180X140X180	380	105	92	196
180X160X180	400	105	98	202

Díámetro (mm) D x D1 x D	L	A	B	H
200X63X200	305	112	63	176
200X75X200	310	112	70	183
200X90X200	330	112	79	191
200X110X200	355	112	82	196
200X125X200	370	112	87	201
200X160X200	420	112	98	207
225X90X225	345	120	79	207
225X110X225	365	120	82	212
225X160X225	417	120	98	212
225X180X225	433	95	86	209
250X90X250	395	129	79	218
250X110X250	395	129	82	216
250X125X250	410	129	87	221
250X160X250	398	95	81	218
250X180X250	460	129	105	245
250X200X250	379	75	112	254
280X90X280	410	140	79	235
280X110X280	430	140	82	238
280X160X280	480	140	98	254
280X200X280	520	140	112	268
280X225X280	545	140	122	278
280X250X280	570	140	129	285
315X90X315	420	150	79	255
315X110X315	442	150	82	255
315X160X315	450	130	77	247
315X180X315	503	150	105	291
315X200X315	455	110	95	285
315X225X315	550	150	120	292
315X250X315	460	80	80	248
355X250X355	620	120	120	290
355X315X355	620	120	120	290
400X200X400	670	130	150	380
400X315X400	670	130	150	380
400X355X400	670	130	150	380

Flanges de Respaldo de Acero Inoxidable y de Hierro Dúctil Galvanizados

Nuestros flanges de respaldo han sido diseñados y fabricados especialmente para ser utilizados con Stub Ends de HDPE, fabricados tanto en norma ANSI (2" a 24") como en norma DIN (90mm a 630mm). Gracias a su estructura única, cumplen la misma función que los flanges de respaldo lisos pero con menor peso. Poseen una alta resistencia al estiramiento mecánico y a la corrosión.

DN (mm)	CODE	ID	OD	BC	MxN	Mpa
90	DIF90-10/16	108	200	160	M16X8	1.6
110	DIF110-10/16	128	220	180	M16X8	1.6
125	DIF125-10/16	135	220	180	M16X8	1.6
140	DIF140-10/16	158	250	210	M16X8	1.6
160	DIF160-10/16	178	285	240	M20X8	1.6
180	DIF180-10/16	188	285	240	M20X8	1.6
200	DIF200-16	235	340	295	M20X12	1.6
225	DIF225-16	238	340	295	M20X12	1.6
250	DIF250-16	288	405	355	M20X12	1.6
280	DIF280-16	294	405	355	M24X12	1.6
315	DIF315-16	338	460	410	M24X12	1.6
355	DIF355-16	376	520	470	M24X16	1.6
400	DIF400-16	430	580	525	M27X16	1.6
450	DIF450-10	517	670	620	M24X20	1.0
500	DIF500-10	533	670	620	M24X20	1.0
560	DIF560-10	618	780	725	M27X20	1.0
630	DIF630-10	645	780	725	M27X20	1.0

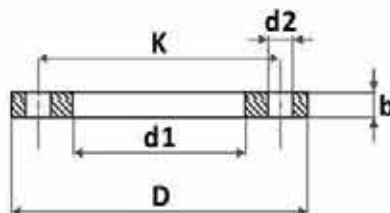


Flanges de Respaldo y Ciegos para Stub End de HDPE

Tubería		DIN 2673 y DIN 2642 PN-10							ANSI B16,5 Clase 150 hasta 24" / ASME B16,1 Clase A desde 22"						
D		Dimensiones					Pernos		Dimensiones					Pernos	
mm	Pulg	D	d1	d2	K	b	N°	Medida	D	d1 (*)	d2	K	b	N°	Medida
20	1/2"	95	32	14	65	14	4	M 12	88,90	32	15,90	60,50	11,20	4	1/2"
25	3/4"	105	38	14	75	14	4	M 12	98,60	38	15,90	69,90	12,70	4	1/2"
32	1"	115	45	14	85	16	4	M 12	108,00	45	15,90	79,20	14,20	4	1/2"
40	1 1/4"	140	55	18	100	16	4	M 16	117,30	55	15,90	88,90	15,70	4	1/2"
50	1 1/2"	150	66	18	110	16	4	M 16	127,00	66	15,90	98,60	17,50	4	1/2"
63	2"	165	78	18	125	16	4	M 16	152,40	78	19,10	120,70	19,10	4	5/8"
75	2 1/2"	185	92	18	145	16	4	M 16	177,80	92	19,10	139,70	22,40	4	5/8"
90	3"	200	108	18	160	18	8	M 16	190,50	108	19,10	152,40	23,90	4	5/8"
110	4"	220	128	18	180	18	8	M 16	228,60	128	19,10	190,50	23,90	8	5/8"
125	5"	220	135	18	180	18	8	M 16	254,00	135	22,40	215,90	23,90	8	3/4"
140	5 1/2"	250	158	18	210	18	8	M 16	254,00	158	22,40	215,90	23,90	8	3/4"
160	6"	285	178	22	240	18	8	M 20	279,40	178	22,40	241,30	25,40	8	3/4"
180	6"	285	188	22	240	18	8	M 20	279,40	188	22,40	241,30	25,40	8	3/4"
200	8"	340	235	22	295	20	8	M 20	342,90	235	22,40	298,50	26,40	8	3/4"
225	8"	340	238	22	295	20	8	M 20	342,90	238	22,40	298,50	26,40	8	3/4"
250	10"	395	288	22	350	22	12	M 20	406,40	288	25,40	362,00	30,20	12	7/8"
280	10"	395	294	22	350	22	12	M 20	406,40	294	25,40	362,00	30,20	12	7/8"
315	12"	445	338	22	400	26	12	M 20	482,60	338	25,40	431,80	31,80	12	7/8"
355	12"	505	376	22	460	28	16	M 20	533,40	376	28,40	476,30	35,10	12	1"
400	16"	565	430	26	515	32	16	M 24	596,90	430	28,40	539,80	36,80	16	1"
450	18"	640	497	26	585	38	20	M 24	635,00	497	31,80	577,90	39,60	16	1 1/8"
500	20"	670	533	26	620	38	20	M 24	598,50	533	31,80	635,00	42,90	20	1 1/8"
560	22"	780	618	30	725	44	20	M 27	749,00	618	34,90	692,00	45,00	20	1 1/4"
630	24"	780	645	30	725	44	20	M 27	812,80	645	34,90	749,30	47,80	20	1 1/4"
710	28"	895	740	30	840	50	24	M 27	927,00	740	34,90	864,00	50,00	28	1 1/4"
800	32"	1015	843	33	950	56	24	M 30	984,00	843	41,30	914,00	56,00	28	1 1/2"
900	36"	1115	947	33	1050	62	28	M 30	1168,00	947	41,30	1085,00	60,00	32	1 1/2"
1000	40"	1230	1050	36	1160	68	28	M 33	1346,00	1050	41,30	1257,00	62,00	36	1 1/2"
1200	48"	1455	1260	39	1380	80	32	M 36	1511,00	1260	41,30	1422,00	75,00	44	1 1/2"

d1 (*): Diámetro interior para tuberías de HDPE milimétricas.

•• Flanges en acero carbono, acero inoxidable y revestidos en HDPE ••



•• Disponemos de flanges en norma AWWA ••

Empaquetaduras: diferentes tipos y materiales, nacionales e importadas



Pernos, espárragos, golillas y tuercas en acero, zincados e inoxidables



DIMENSIONES DE LOS ESPÁRRAGOS

FLANGE	Serie 150				Serie 300				Serie 600			
	Cantidad	Ø	Largo		Cantidad	Ø	Largo		Cantidad	Ø	Largo	
			RF	RJ			RF	RJ			RF	RJ
½"	4	½"	2 ½"	-	4	½"	2 ½"	3"	4	½"	3"	3"
¾"	4	½"	2 ½"	-	4	¾"	3"	3 ½"	4	¾"	3 ½"	3 ½"
1"	4	½"	2 ½"	3"	4	¾"	3"	3 ½"	4	¾"	3 ½"	3 ½"
1 ¼"	4	½"	2 ¾"	3 ½"	4	¾"	3 ½"	3 ½"	4	¾"	3 ½"	3 ½"
1 ½"	4	½"	2 ¾"	3 ½"	4	¾"	3 ½"	4"	4	¾"	4 ¼"	4 ¼"
2"	4	¾"	3 ½"	3 ½"	8	¾"	3 ½"	4"	8	¾"	4 ¼"	4 ¼"
2 ½"	4	¾"	3 ½"	4"	8	¾"	4"	4 ½"	8	¾"	4 ¾"	4 ¾"
3"	4	¾"	3 ½"	4"	8	¾"	4 ¼"	4 ¾"	8	¾"	5"	5"
3 ½"	8	¾"	3 ½"	4"	8	¾"	4 ¼"	5"	8	¾"	5 ½"	5 ½"
4"	8	¾"	3 ½"	4"	8	¾"	4 ¼"	5"	8	¾"	5 ½"	5 ½"
5"	8	¾"	3 ¾"	4 ¼"	8	¾"	4 ¾"	5 ½"	8	1"	6 ½"	6 ½"
6"	8	¾"	4"	4 ½"	12	¾"	4 ¾"	5 ½"	12	1"	6 ¾"	6 ¾"
8"	8	¾"	4 ¼"	4 ¾"	12	¾"	5 ½"	6"	12	1 ½"	7 ½"	7 ½"
10"	12	¾"	4 ½"	5"	16	1"	6 ½"	6 ¾"	16	1 ½"	8 ½"	8 ½"
12"	12	¾"	4 ¾"	5 ½"	16	1 ½"	6 ¾"	7 ¼"	20	1 ½"	8 ¾"	8 ¾"
14"	12	1"	5 ½"	5 ¾"	20	1 ½"	7"	7 ½"	20	1 ¾"	9 ¼"	9 ¼"
16"	12	1"	5 ½"	5 ¾"	20	1 ½"	7 ½"	8"	20	1 ¾"	10"	10"
18"	12	1 ½"	5 ¾"	6 ¼"	24	1 ½"	7 ¾"	8 ¼"	20	1 ¾"	10 ¾"	10 ¾"
20"	12	1 ½"	6 ¾"	6 ¾"	24	1 ½"	8"	8 ¾"	24	1 ¾"	11 ¼"	11 ¼"
24"	12	1 ½"	6 ¾"	7 ¼"	24	1 ½"	9"	10"	24	1 ¾"	13"	13 ¼"



Copla



Diámetro (mm)
16
20
25
32
40
50
63
75
90
110

Copla Reducción



Diámetro (mm)
20 x 16
25 x 16
25 x 20
32 x 20
32 x 25
40 x 25
40 x 32
50 x 32
50 x 40
63 x 32
63 x 40
63 x 50
75 x 50
75 x 63
90 x 63
90 x 75
110 x 63
110 x 75
110 x 90

Codo 90°



Diámetro (mm)
16
20
25
32
40
50
63
75
90
110

Tapón



Diámetro (mm)
16
20
25
32
40
50
63
75
90
110

Codo 90°HE



Diámetro (mm)
16 x 1/2"
16 x 3/4"
20 x 1/2"
20 x 3/4"
25 x 1/2"
25 x 3/4"
25 x 1"
32 x 1/2"
32 x 3/4"
32 x 1"
32 x 1.1/4"
40 x 1"
40 x 1.1/4"
40 x 1.1/2"
50 x 1.1/4"
50 x 1.1/2"
50 x 2"
63 x 1.1/2"
63 x 2"
63 x 2.1/2"
75 x 2.1/2"
75 x 3"
90 x 3"
90 x 4"
110 x 4"

Terminal Flange



Diámetro (mm)
50 x 1-1/2"
50 x 2"
63 x 2"
75 x 2-1/2"
90 x 3"
90 x 4"
110 x 4"

Codo 90°HI



Terminal HI



Diámetro (mm)	
16 x 1/2"	50 x 1.1/2"
16 x 3/4"	50 x 2"
20 x 1/2"	63 x 1.1/2"
20 x 3/4"	63 x 2"
25 x 1/2"	63 x 2.1/2"
25 x 3/4"	75 x 2"
25 x 1"	75 x 2.1/2"
32 x 1/2"	75 x 3"
32 x 3/4"	90 x 2"
32 x 1"	90 x 2.1/2"
32 x 1.1/4"	90 x 3"
40 x 1"	90 x 4"
40 x 1.1/4"	110 x 2"
40 x 1.1/2"	110 x 3"
50 x 1.1/4"	110 x 4"

Tee HI



Diámetro (mm)	
16 x 1/2" x 16	50 x 1.1/4" x 50
16 x 3/4" x 16	50 x 1.1/2" x 50
20 x 1/2" x 20	50 x 2" x 50
20 x 3/4" x 20	63 x 1.1/2" x 63
25 x 1/2" x 25	63 x 2" x 63
25 x 3/4" x 25	63 x 2.1/2" x 63
25 x 1" x 25	75 x 2" x 75
32 x 1/2" x 32	75 x 2.1/2" x 75
32 x 3/4" x 32	75 x 3" x 75
32 x 1" x 32	90 x 2.1/2" x 90
32 x 1.1/4" x 32	90 x 3" x 90
40 x 1" x 40	110 x 3" x 110
40 x 1.1/4" x 40	110 x 4" x 110
40 x 1.1/2" x 40	40 x 1.1/2" x 40

Tee



Diámetro (mm)
16
20
25
32
40
50
63
75
90
110

Terminal HE



Diámetro (mm)	
16 x 1/2"	50 x 1.1/2"
16 x 3/4"	50 x 2"
20 x 1/2"	63 x 1.1/4"
20 x 3/4"	63 x 1.1/2"
25 x 1/2"	63 x 2"
25 x 3/4"	63 x 2.1/2"
25 x 1"	75 x 2"
32 x 1/2"	75 x 2.1/2"
32 x 3/4"	75 x 3"
32 x 1"	90 x 2"
32 x 1.1/4"	90 x 2.1/2"
32 x 1.1/2"	90 x 3"
40 x 1"	90 x 4"
40 x 1.1/4"	110 x 2"
40 x 1.1/2"	110 x 3"
40 x 2"	110 x 4"
50 x 1.1/4"	

Tee HE



Diámetro (mm)	
16 x 1/2" x 16	40 x 1.1/4" x 40
16 x 3/4" x 16	40 x 1.1/2" x 40
20 x 1/2" x 20	50 x 1.1/4" x 50
20 x 3/4" x 20	50 x 1.1/2" x 50
25 x 1/2" x 25	50 x 2" x 50
25 x 3/4" x 25	63 x 1.1/2" x 63
25 x 1" x 25	63 x 2" x 63
32 x 1/2" x 32	63 x 2.1/2" x 63
32 x 3/4" x 32	75 x 2.1/2" x 75
32 x 1" x 32	75 x 3" x 75
32 x 1.1/4" x 32	90 x 3" x 90
40 x 1" x 40	110 x 4" x 110

Tee Reducción



Diámetro (mm)
20 x 16 x 20
25 x 20 x 25
32 x 25 x 32
40 x 32 x 40
50 x 40 x 50
63 x 50 x 63
75 x 63 x 75
90 x 75 x 90
110 x 63 x 110
110 x 90 x 110

Collarín de Arranque PP



Diámetro D (mm) x D1 (pulg)	PN
25 x 1/2"	16
25 x 3/4"	16
32 x 1/2"	16
32 x 3/4"	16
32 x 1"	16
40 x 1/2"	16
40 x 3/4"	16
40 x 1"	16
50 x 1/2"	16
50 x 3/4"	16
50 x 1"	16
63 x 1/2"	16
63 x 3/4"	16
63 x 1"	16
63 x 1 1/4"	16
63 x 1 1/2"	16
75 x 1/2"	16
75 x 3/4"	16
75 x 1"	16
75 x 1 1/4"	16
75 x 1 1/2"	16
75 x 2"	16

Diámetro D (mm) x D1 (pulg)	PN
90 x 1/2"	16
90 x 3/4"	16
90 x 1"	16
90 x 1 1/4"	16
90 x 1 1/2"	16
90 x 2"	16
110 x 1/2"	16
110 x 3/4"	16
110 x 1"	16
110 x 1 1/4"	16
110 x 1 1/2"	16
110 x 2"	16
125 x 3/4"	16
125 x 1"	16
125 x 1 1/4"	16
125 x 1 1/2"	16
125 x 2"	16
160 x 3/4"	16
160 x 1"	16
160 x 1 1/4"	16
160 x 1 1/2"	16
160 x 2"	16
160 x 3"	10

Diámetro D (mm) x D1 (pulg)	PN
200 x 1"	10
200 x 1 1/2"	10
200 x 2"	10
200 x 3"	8
200 x 4"	8
225 x 1 1/2"	10
225 x 2"	10
225 x 3"	8
225 x 4"	8
250 x 1 1/2"	10
250 x 2"	10
250 x 3"	8
250 x 4"	8
315 x 1 1/2"	10
315 x 2"	10
315 x 3"	8
315 x 4"	8



Diámetro D (pulg)	PN
1/2"	16
3/4"	16
1"	16
1 1/4"	16
1 1/2"	16
2"	16
2 1/2"	16
3"	16
1/2" x 3/4"	16
3/4" x 1"	16
3/4" x 1 1/4"	16
1" x 1 1/4"	16
1 1/4" x 1 1/2"	16
1 1/4" x 2"	16
1 1/2" x 2"	16
2" x 2 1/2"	16
2" x 3"	16
2 1/2" x 3"	16

Niple HE



Buje Reducción HE/HI



Diámetro D (pulg)	PN
1/2" x 3/4"	16
1/2" x 1"	16
1/2" x 1 1/4"	16
3/4" x 1"	16
3/4" x 1 1/4"	16
3/4" x 1 1/2"	16
1" x 1 1/4"	16
1" x 1 1/2"	16
1" x 2"	16
1" x 3"	16
1 1/4" x 1 1/2"	16
1 1/4" x 2"	16
1 1/2" x 2"	16
1 1/2" x 3"	16
2" x 2 1/2"	16
2" x 3"	16
2" x 4"	16
2 1/2" x 3"	16
3" x 4"	16

Fabricacion de Fitting Conformado, Mecanizado y Piezas Especiales



Tubería de Polietileno de Alta Densidad (HDPE) para aplicaciones mineras, sanitarias, agrícolas, acuícolas, químicas y para la industria en general. Disponibles en diámetros desde 20mm hasta 2.000mm y para presiones nominales (PN) desde 4 bar hasta 25 bar.

VENTAJAS

- Gran resistencia a agentes corrosivos y fluidos químicos
- Larga vida útil (estimada superior a 50 años para transporte de agua a 20°C)
- Son químicamente inertes
- Sistemas de unión estancos, fijos y desmontables:
 - Fijos:
 - Soldadura a tope por termofusión
 - Unión mediante conexiones o fitting electrofusión
 - Desmontables:
 - Unión mediante conexiones o fitting a compresión
 - Unión mediante flanges
 - Otros tipos de uniones metálicas
- Alta resistencia y flexibilidad
- Insensibilidad a la congelación
- Escasa pérdida de carga por roce, bajo coeficiente de fricción, se consideran lisas, prácticamente, para cálculos hidráulicos.
- Atóxico
- Bajo efecto de incrustación
- Alta resistencia a la abrasión
- Gran resistencia y estabilidad frente a radiación ultravioleta
- Excelente comportamiento ante cambios bruscos de presión (golpes de Ariete)

SUMINISTRO

- Tiras de 6 ó 12 metros
- Rollos de 50 ó 100 metros para diámetros menores (hasta 110mm)



Dimensiones para tuberías HDPE PE-100, norma ISO 4427/7 (NCH 398/1)

DN	2DN (equiv)	3) Relación estándar de dimensión (SDR)																	
		SDR 41 (S20)		SDR 33 (S16)		SDR 26 (S12,5)		SDR 21 (S10)		SDR 17 (S8)		SDR 13,6 (S6,3)		SDR 11 (S5)		SDR 9 (S4)		SDR 7,4 (S3,2)	
		1) Presión Nominal (PN)																	
		PN4		PN5		PN6		PN8		PN10		PN12.5		PN16		PN20		PN25	
mm	pulg	e min mm	Peso Prom kg/m	e min mm	Peso Prom kg/m	e min mm	Peso Prom kg/m	e min mm	Peso Prom kg/m	e min mm	Peso Prom kg/m	e min mm	Peso Prom kg/m	e min mm	Peso Prom kg/m	e min mm	Peso Prom kg/m	e min mm	Peso Prom kg/m
16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,0	0,09	2,3	0,10
20	1/2	-	-	-	-	-	-	-	-	-	-	-	-	2,0	0,12	2,3	0,13	3,0	0,16
25	3/4	-	-	-	-	-	-	-	-	-	-	2,0	0,15	2,3	0,17	3,0	0,21	3,5	0,24
32	1	-	-	-	-	-	-	-	-	2,0	0,19	2,4	0,23	3,0	0,28	3,6	0,33	4,4	0,39
40	1 1/4	-	-	-	-	-	-	2,0	0,25	2,4	0,29	3,0	0,36	3,7	0,43	4,5	0,51	5,5	0,61
50	1 1/2	-	-	-	-	2,0	0,31	2,4	0,37	3,0	0,45	3,7	0,55	4,6	0,67	5,6	0,79	6,9	0,94
63	2	-	-	-	-	2,5	0,49	3,0	0,58	3,8	0,72	4,7	0,88	5,8	1,06	7,1	1,27	8,6	1,48
75	2 1/2	-	-	-	-	2,9	0,67	3,6	0,83	4,5	1,02	5,6	1,24	6,8	1,48	8,4	1,78	10,3	2,12
90	3	-	-	-	-	3,5	0,98	4,3	1,19	5,4	1,47	6,7	1,78	8,2	2,14	10,1	2,57	12,3	3,03
110	4	-	-	-	-	4,2	1,44	5,3	1,78	6,6	2,18	8,1	2,64	10,0	3,18	12,3	3,82	15,1	4,54
125	5	-	-	-	-	4,8	1,85	6,0	2,28	7,4	2,78	9,2	3,40	11,4	4,12	14,0	4,94	17,1	5,84
140	5 1/2	-	-	-	-	5,4	2,34	6,7	2,86	8,3	3,49	10,3	4,26	12,7	5,13	15,7	6,18	19,2	7,34
160	6	-	-	-	-	6,2	3,06	7,7	3,74	9,5	4,56	11,8	5,56	14,6	6,74	17,9	8,05	21,9	9,56
180	7	-	-	-	-	6,9	3,81	8,6	4,71	10,7	5,77	13,3	7,06	16,4	8,52	20,1	10,19	24,6	12,08
200	8	-	-	-	-	7,7	4,73	9,6	5,83	11,9	7,12	14,7	8,65	18,2	10,50	22,4	12,60	27,4	14,94
225	9	-	-	-	-	8,6	5,94	10,8	7,37	13,4	9,03	16,6	10,99	20,5	13,30	25,2	15,95	30,8	18,89
250	10	-	-	-	-	9,6	7,37	11,9	9,02	14,8	11,06	18,4	13,54	22,7	16,35	27,9	19,60	34,2	23,32
280	11	-	-	-	-	10,7	9,19	13,4	11,38	16,6	13,90	20,6	16,96	25,4	20,50	31,3	24,64	38,3	29,24
315	12	7,7	7,57	9,7	9,45	12,1	11,70	15,0	14,30	18,7	17,60	23,2	21,50	28,6	25,95	35,2	31,16	43,1	37,01
355	14	8,7	9,63	10,9	11,95	13,6	14,79	16,9	18,16	21,1	22,40	26,1	27,25	32,2	32,94	39,7	39,58	48,5	46,93
400	16	9,8	12,20	12,3	15,22	15,3	18,75	19,1	23,16	23,7	28,31	29,4	34,56	36,3	41,82	44,7	50,21	54,7	59,60
450	18	11,0	15,38	13,8	19,17	17,2	23,71	21,5	29,28	26,7	35,87	33,1	43,78	40,9	52,96	50,3	63,57	61,5	75,40
500	20	12,3	19,15	15,3	23,64	19,1	29,25	23,9	36,13	29,7	44,32	36,8	54,02	45,4	65,34	55,8	78,33	-	-
560	22	13,7	23,85	17,2	29,75	21,4	36,67	26,7	45,22	33,2	55,52	41,2	67,77	50,8	81,86	62,5	98,28	-	-
630	24	15,4	30,17	19,3	37,53	24,1	46,46	30,0	57,12	37,4	70,32	46,3	85,66	57,2	103,97	70,3	124,37	-	-
710	28	17,4	38,45	21,8	47,78	27,2	59,15	33,9	72,85	42,1	89,37	52,2	109,00	64,5	131,97	79,3	158,33	-	-
800	32	19,6	48,76	24,5	60,52	30,6	74,91	38,1	92,34	47,4	113,32	58,8	138,26	72,6	167,36	89,3	200,89	-	-
900	36	22,0	61,50	27,6	76,66	34,4	95,13	42,9	116,83	53,3	143,35	66,2	175,16	81,7	211,85	-	-	-	-
1000	40	24,5	76,15	30,6	94,00	38,2	116,91	47,7	144,34	59,3	177,16	72,5	213,34	90,2	260,09	-	-	-	-
1200	48	29,4	109,63	36,7	135,83	45,9	168,39	57,2	207,76	67,9	244,03	88,2	311,08	-	-	-	-	-	-
1400	54	34,3	149,18	42,9	185,15	53,5	229,03	66,7	282,49	82,4	344,68	102,9	423,24	-	-	-	-	-	-
1600	64	39,2	194,82	49,0	241,63	61,2	299,43	76,2	368,91	94,1	449,89	117,6	552,83	-	-	-	-	-	-
1800	70	43,8	244,72	54,5	302,56	69,1	380,25	85,7	466,60	105,9	569,33	-	-	-	-	-	-	-	-
2000	78	48,3	301,45	60,6	373,72	76,9	469,88	95,2	576,01	117,6	702,55	-	-	-	-	-	-	-	-

- 1) La presión nominal PN corresponde a la máxima presión de operación admisible pPMS, en bar, a 20° C.
- 2) Valores en pulgadas utilizados como referencia con la norma ASTM/ANSI B 36.10
- 3) La relación SDR corresponde al cociente entre el diámetro externo y el espesor de la tubería.

Nota: La tabla se basa en la Norma ISO 4427-2007.



Existen diferentes tipos de tubería corrugada de HDPE de pared interior lisa y exterior corrugado o estructurado. Estas han sido diseñadas para aplicaciones de conducción gravitacional (baja presión interna) de fluidos y dado su diseño estructural, tienen una alta resistencia a cargas externas. Disponibles en diámetros desde 100mm a 4.000mm.

APLICACIONES

- Entubamiento de canales de regadío
- Drenes agrícolas, de carreteras y otros
- Atravesos de carreteras/caminos
- Conducción y drenaje de aguas fluviales
- Colectores de aguas lluvia
- Redes de alcantarillado
- Emisarios
- Aducciones en centrales de paso
- Recuperación de suelos pantanosos
- Drenaje de pilas de lixiviación
- Alcantarillas viales
- Transporte de residuos industriales abrasivos y/o corrosivos
- Transporte y descarga de riles
- Pisciculturas
- Se fabrican estanques, cámaras, etc.

VENTAJAS

- Liviana, fácil manipular/transportar/installar
- Bajo coeficiente de roce
- Larga vida útil (más de 50 años)
- Alta rigidez anular
- Insensibilidad a las heladas
- Flexible, no se rompe por efecto de sismos
- Se fabrican fittings del mismo tipo de la tubería
- Imposibilidad de entrada de raíces
- Gran resistencia química
- Buena resistencia a la abrasión
- Gran resistencia y estabilidad frente a radiación UV
- Gran resistencia al impacto
- No permite adherencias o incrustaciones



Ofrecemos una gran variedad de tuberías de PVC para todo tipo de aplicaciones. Nuestras principales líneas de productos son:

- Presión o Hidráulico: 20mm a 400mm
PN-6 a PN-25
- Sanitario Gris: 40mm a 110mm
- Sanitario Blanco con goma: 40mm a 160mm
- Colector (Clase I y Clase II) con goma: 160mm a 400mm
- Conduit:
 - 16mm a 160mm
 - Sch-40: ½" a 10"
 - Sch-80: ½" a 8"
- Drenaje: 250mm a 600mm

Aplicaciones

- Redes de agua potable
- Acueductos
- Alcantarillado
- Drenaje agrícola
- Drenaje vial
- Entubamiento de canales
- Riego
- Drenaje obras civiles
- Colectores aguas lluvia
- Minería



Las diferentes Geomembranas de HDPE poseen excelentes propiedades mecánicas, alta resistencia química, resistencia al agrietamiento ambiental, estabilidad dimensional, resistencia al envejecimiento por temperatura y resistencia a la radiación UV. Principalmente son utilizadas para la contención de fluidos, residuos mineros, agrícolas y medioambientales.

El ancho de las laminas es de 7,01 metros y el largo, normalmente, está dado por el espesor de la geomembrana a utilizar (menor espesor = mayor largo).

- Calidades: Nominal y GM13
- Lisas y Texturadas por una o ambas caras
- Venta por rollos y también dimensionados a pedido
- Material certificado
- Espesores: 0,5mm • 0,75mm • 1,00mm • 1,50mm • 2,00mm • 3,00mm
- Importación directa
- Servicio de instalación

Algunas recomendaciones para el manejo e instalación de geomembrana de HDPE

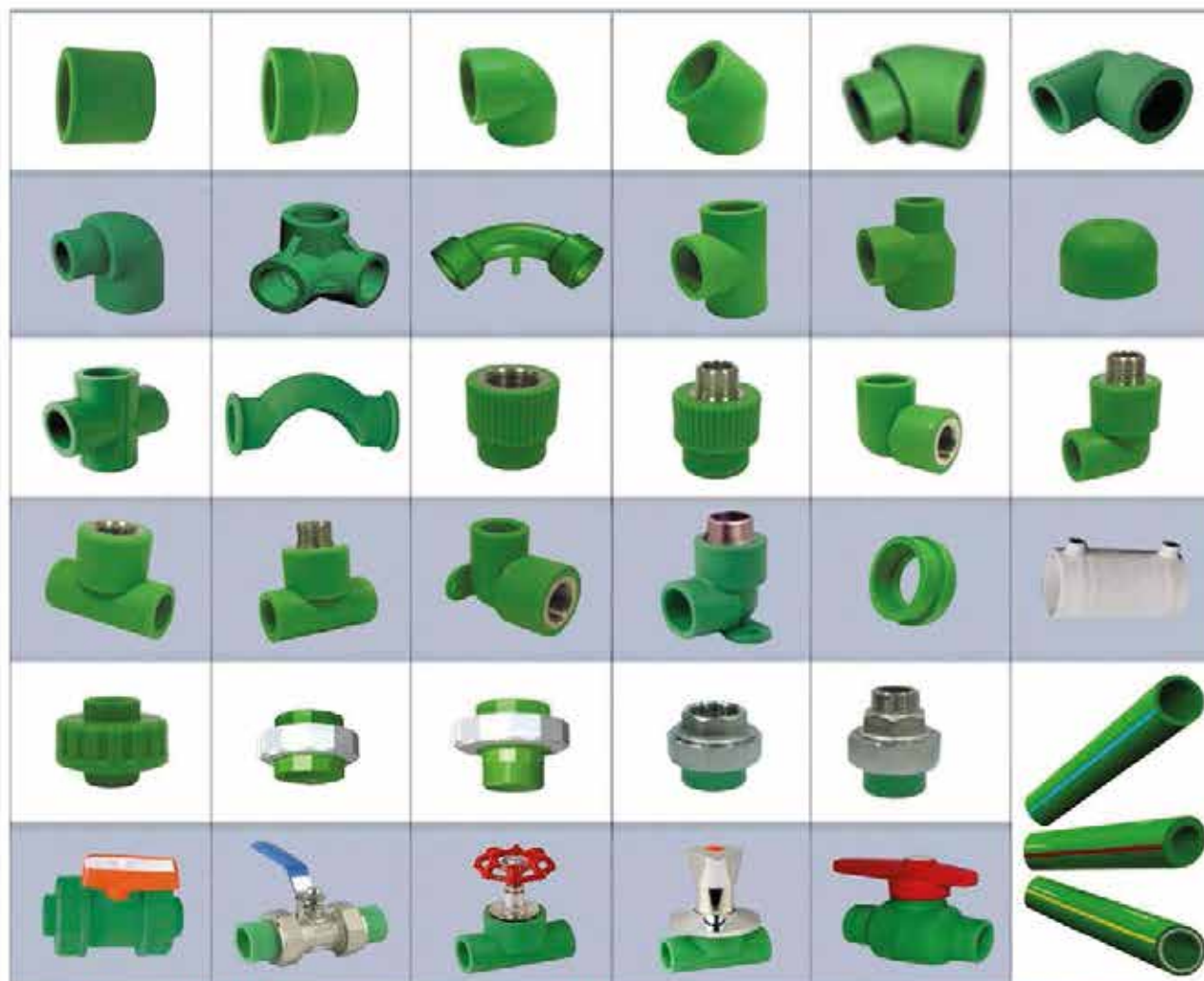
- La superficie a recubrir debe estar limpia y sin elementos punzantes o filosos que pudiesen rasgar la geomembrana.
- Utilizar siempre el equipo adecuado para descargarla y/o manipularla.
- Estrictamente prohibido fumar al personal que esté manipulándola.
- Evitar que se generen sobreestiramientos y/o arrugas en el despliegue.
- Los rollos desplegados deberán ser trabajados y soldados durante el mismo día.



- Tuberías de HDPE, PVC y PRFV
- Filtros
- Flanges
- Bombas
- Goteros
- Válvulas
- Tranques
- Estanques
- Aspersores
- Geomembranas
- Impermeabilizaciones
- Revestimiento Purines
- Montaje tuberías
- Accesorios varios
- Manguera con goteros
- Manguera con goteros autocompensados



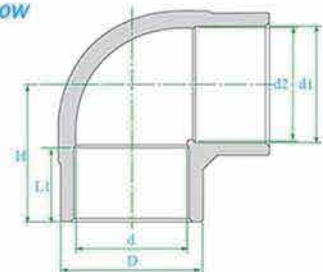
• Tubería • Fitting • Válvulas • Accesorios •
 • Ø: 20mm a 160mm • PN-10 a PN-25 • T° trabajo: -20°C a 95°C



Codo 90°

90° Elbow

S x S

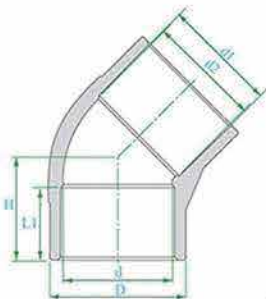


NOMINAL SIZE	90 ELL - S x S	UNIT OF MEASURE: MM					
	D	d	d1	d2	L1	H	APPROX. WT.
1/2"	29.5	19.00	21.54	21.23	22.50	35.00	0.03
3/4"	35.0	24.00	26.87	26.57	25.50	40.00	0.05
1"	43.0	31.00	33.65	33.27	29.00	47.50	0.08
1 1/4"	52.5	40.00	42.42	42.04	32.00	55.00	0.13
1 1/2"	59.0	46.00	48.56	48.11	35.00	62.00	0.17
2"	72.0	58.00	60.63	60.17	38.50	71.50	0.26
2 1/2"	87.5	70.00	73.38	72.85	44.50	83.50	0.45
3"	105.0	86.00	89.31	88.70	48.00	95.00	0.70
4"	132.0	110.00	114.76	114.07	57.50	117.50	1.17
5"	-	-	-	-	-	-	1.94
6"	193.0	164.00	168.83	168.00	77.00	167.00	3.03
8"	246.0	214.00	219.84	218.70	100.00	224.00	7.80
10"	314.0	-	273.81	272.67	140.00	340.00	13.00
12"	362.0	-	324.61	323.47	160.00	338.00	23.00
14"	397.0	-	356.39	-	178.00	369.00	27.00
16"	450.0	-	407.19	-	204.00	427.00	29.00
18"	505.0	-	457.99	-	228.00	490.00	38.00
20"	563.0	-	517.07	-	254.00	510.00	47.00
24"	674.0	-	611.58	-	305.00	617.00	63.00

Codo 45°

45° Elbow

S x S

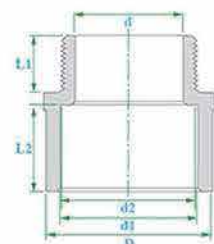


NOMINAL SIZE	45 ELL - S x S	UNIT OF MEASURE: MM					
	D	d	d1	d2	L1	H	APPROX. WT.
1/2"	29.5	19.00	21.54	21.23	22.50	29.50	0.03
3/4"	35.0	24.00	26.87	26.57	25.50	33.00	0.04
1"	43.0	31.00	33.65	33.27	29.00	38.50	0.07
1 1/4"	52.5	40.00	42.42	42.04	32.00	44.00	0.11
1 1/2"	59.0	46.00	48.56	48.11	35.00	48.50	0.14
2"	72.0	58.00	60.63	60.17	38.50	54.50	0.21
2 1/2"	87.5	70.00	73.38	72.85	44.50	63.00	0.36
3"	105.0	86.00	89.31	88.70	48.00	70.00	0.55
4"	132.0	110.00	114.76	114.07	57.50	85.00	0.90
5"	-	-	-	-	-	-	1.67
6"	193.0	164.00	168.83	168.00	77.00	119.50	2.65
8"	245.0	214.00	219.84	218.70	100.00	153.90	7.00
10"	318.0	-	273.81	272.67	140.00	206.30	11.00
12"	356.0	-	324.61	323.47	160.00	271.40	15.00
14"	399.0	-	356.39	-	178.00	298.60	21.00
16"	450.0	-	407.19	-	204.00	345.00	24.00
18"	505.0	-	457.99	-	228.00	381.00	32.00
20"	563.0	-	517.07	-	254.00	405.00	38.00
24"	674.0	-	611.58	-	305.00	478.00	53.00

Terminal HE

Male Adaptor

S x T

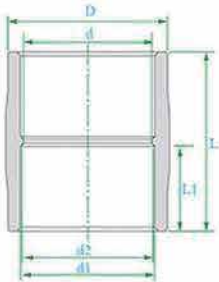


NOMINAL SIZE	ADAPTOR S x T	UNIT OF MEASURE: MM					
	D	d	d1	d2	L1	L2	APPROX. WT.
1/2"	29.5	15.00	21.54	21.23	22.50	18.00	0.02
3/4"	35.0	20.00	26.87	26.57	25.50	18.00	0.03
1"	43.0	25.00	33.65	33.27	29.00	20.00	0.04
1 1/4"	52.5	32.00	42.42	42.04	32.00	22.00	0.07
1 1/2"	59.0	38.00	48.56	48.11	35.00	22.00	0.09
2"	72.0	48.00	60.63	60.17	38.50	25.00	0.12
2 1/2"	87.5	60.00	73.38	72.85	44.50	32.00	0.24
3"	105.0	75.00	89.31	88.70	48.00	33.00	0.32
4"	132.0	100.00	114.76	114.07	57.50	36.00	0.55

Copla

Coupling

S x S

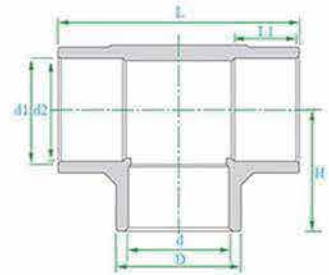


NOMINAL SIZE	COUPLING - S x S		UNIT OF MEASURE: MM				
	D	d	d1	d2	L1	L	APPROX. WT.
1/2"	29.5	19.00	21.54	21.25	22.50	48.00	0.02
3/4"	35.0	24.00	26.87	26.57	25.50	54.00	0.03
1"	43.0	31.00	33.65	33.27	29.00	61.00	0.05
1 1/4"	52.5	40.00	42.42	42.04	32.00	68.00	0.08
1 1/2"	59.0	46.00	48.56	48.11	35.00	74.00	0.10
2"	72.0	58.00	60.63	60.17	38.50	81.00	0.14
2 1/2"	87.5	70.00	73.38	72.85	44.50	93.00	0.26
3"	105.0	86.00	89.31	88.70	48.00	100.00	0.38
4"	132.0	110.00	114.76	114.07	57.50	120.00	0.58
5"	-	-	-	-	-	-	1.06
6"	193.0	164.00	168.83	168.00	77.00	162.00	1.62
8"	246.0	214.00	219.84	218.70	100.00	216.00	3.17
10"	305.0	-	273.81	272.67	140.00	270.00	6.00
12"	370.0	-	324.61	323.47	160.00	338.00	10.00
14"	393.0	-	356.39	-	178.00	406.00	14.00
16"	450.0	-	407.19	-	204.00	439.00	18.00
18"	505.0	-	457.99	-	228.00	496.00	22.00
20"	563.0	-	517.07	-	254.00	522.00	27.00
24"	674.0	-	611.58	-	305.00	652.00	34.00

Tee

Tee

S x S

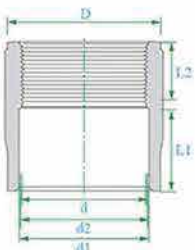


NOMINAL SIZE	TEE - S x S		UNIT OF MEASURE: MM				
	D	d	d1	d2	L	L1	H
1/2"	29.5	19.00	21.54	21.25	70.00	22.50	35.00
3/4"	35.0	24.00	26.87	26.57	80.00	25.50	40.00
1"	43.0	31.00	33.65	33.27	95.00	29.00	47.50
1 1/4"	52.5	40.00	42.42	42.04	112.00	32.00	55.00
1 1/2"	59.0	46.00	48.56	48.11	124.00	35.00	62.00
2"	72.0	58.00	60.63	60.17	143.00	38.50	71.50
2 1/2"	87.5	70.00	73.38	72.85	167.00	44.50	83.50
3"	105.0	86.00	89.31	88.70	190.00	48.00	95.00
4"	132.0	110.00	114.76	114.07	235.00	57.50	117.50
5"	-	-	-	-	-	-	-
6"	193.0	164.00	168.83	168.00	334.00	77.00	167.00
8"	245.0	214.00	219.84	218.70	448.00	100.00	224.00
10"	318.0	-	273.81	272.67	585.00	140.00	292.00
12"	356.0	-	324.61	323.47	672.00	160.00	338.00
14"	399.0	-	356.39	-	738.00	178.00	370.00
16"	450.0	-	407.19	-	866.00	204.00	433.00
18"	505.0	-	457.99	-	980.00	228.00	490.00
20"	563.0	-	517.07	-	1022.00	254.00	510.00
24"	674.0	-	611.58	-	1225.00	305.00	613.00

Terminal HI

Female Adaptor

S x T



NOMINAL SIZE	ADAPTOR S x T		UNIT OF MEASURE: MM				
	D	d	d1	d2	L1	L2	APPROX. WT.
1/2"	29 29.5	18.00	21.54	21.25	22.50	20.00	0.02
3/4"	35.0	22.50	26.87	26.57	25.50	20.00	0.04
1"	43.0	28.00	33.65	33.27	29.00	22.50	0.06
1 1/4"	52.5	36.00	42.42	42.04	32.00	23.00	0.10
1 1/2"	59.0	43.00	48.56	48.11	35.00	25.00	0.14
2"	72.0	55.00	60.63	60.17	38.50	27.00	0.22
2 1/2"	87.5	64.00	73.38	72.85	44.50	35.00	0.34
3"	105.0	80.00	89.31	88.70	48.00	38.00	0.52
4"	132.0	106.00	114.76	114.07	57.50	38.00	0.75

Union Americana

Union

S x S

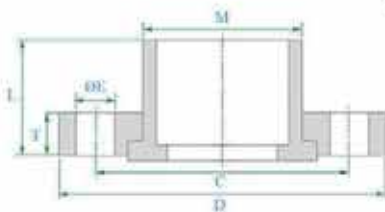
NOMINAL SIZE	UNION - S x S		UNIT OF MEASURE: MM				
	O	d	d1	d2	L1	L2	APPROX. WT.
1/2"	44.2	13.00	21.54	21.23	22.20	55.00	0.05
3/4"	55.6	18.20	26.87	26.57	26.00	63.80	0.08
1"	66.5	24.00	33.65	33.27	28.00	69.50	0.13
1 1/4"	82.2	30.50	42.42	42.04	33.80	79.90	0.19
1 1/2"	98.1	38.20	48.56	48.11	34.80	81.50	0.34
2"	120.0	50.00	60.63	60.17	38.10	98.00	0.58
2 1/2"	120.0	50.00	73.38	72.83	41.30	98.00	0.60
3"	184.0	75.00	89.31	88.70	47.60	118.00	1.30
4"	199.0	100.00	114.74	114.07	57.20	136.00	2.17



Flange giratorio

Van Stone Flange

S x S



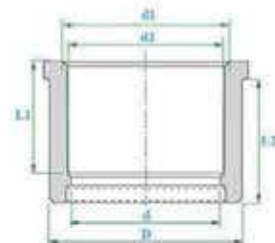
NOMINAL SIZE	FLANGE S x S		UNIT OF MEASURE: MM					
	D	C	M	T	L	ØE-N	APPROX.WT.	
1/2"	89.0	60.30	51.00	12.70	25.40	14.20	0.10	
3/4"	98.0	69.90	56.50	14.20	28.50	14.20	0.11	
1"	108.0	79.40	64.50	16.60	31.30	13.00	0.18	
1 1/4"	116.0	88.90	54.00	16.60	34.10	13.00	0.22	
1 1/2"	125.0	98.40	60.80	17.50	35.00	21.10	0.29	
2"	149.0	120.70	73.00	20.60	38.10	21.10	0.40	
2 1/2"	176.0	138.30	90.50	22.20	49.20	21.10	0.57	
3"	190.0	152.40	108.00	25.40	57.10	18.00	0.68	
4"	250.0	190.50	133.30	25.40	62.00	18.20	1.07	
5"	257.0	215.90	158.70	28.50	73.00	22.00	1.53	
6"	285.0	241.50	192.00	34.90	82.50	22.00	1.90	
8"	343.0	298.50	242.00	37.30	111.00	22.00	3.80	
10"	410.0	362.00	298.50	42.80	142.00	23.80	5.00	
12"	489.0	431.80	349.00	42.80	184.00	25.40	9.00	
14"	555.0	477.80	394.50	50.80	193.00	27.00	14.00	
16"	597.0	541.30	450.00	60.30	216.00	28.50	-	
18"	635.0	572.90	508.00	60.30	228.00	31.80	-	
20"	698.0	635.00	561.20	63.50	264.00	31.80	-	
24"	813.0	749.50	671.50	72.20	290.00	33.00	-	

Buje Reduccion

Reducing Bushes

S x S

NOMINAL SIZE	REDUCER - S x S		UNIT OF MEASURE: MM					
	D	d	d1	d2	L1	L2	APPROX. WT.	
3/4" x 1/2"	26.67	19.00	21.54	21.23	22.50	25.50	0.01	
1" x 1/2"	33.40	19.00	21.54	21.23	22.50	29.00	0.03	
1" x 3/4"	33.40	24.00	26.87	26.57	25.50	29.00	0.02	
1 1/4" x 1/2"	42.16	19.00	21.54	21.23	22.50	52.00	0.05	
1 1/4" x 3/4"	42.16	24.00	26.87	26.57	25.50	52.00	0.05	
1 1/4" x 1"	42.16	31.00	33.65	33.27	29.00	52.00	0.05	
1 1/2" x 1/2"	48.26	19.00	21.54	21.23	22.50	55.00	0.04	
1 1/2" x 3/4"	48.26	24.00	26.87	26.57	25.50	55.00	0.06	
1 1/2" x 1"	48.26	31.00	33.65	33.27	29.00	55.00	0.06	
1 1/2" x 1 1/4"	48.26	40.00	42.42	42.04	32.00	55.00	0.04	
2" x 1/2"	60.33	19.00	21.54	21.23	22.50	58.50	0.10	
2" x 3/4"	60.33	24.00	26.87	26.57	25.50	58.50	0.09	
2" x 1"	60.33	31.00	33.65	33.27	29.00	58.50	0.09	
2" x 1 1/4"	60.33	40.00	42.42	42.04	32.00	58.50	0.09	
2 1/2" x 1/2"	60.33	46.00	48.56	48.11	35.00	58.50	0.07	
2 1/2" x 1 1/4"	73.03	46.00	48.56	48.11	35.00	64.50	0.17	
2 1/2" x 2"	73.03	58.00	60.63	60.17	38.50	64.50	0.10	
3" x 1"	88.90	31.00	33.65	33.27	29.00	48.00	0.24	
3" x 1 1/2"	88.90	46.00	48.56	48.11	35.00	48.00	0.24	
3" x 2"	88.90	50.00	60.63	60.17	38.50	48.00	0.25	
3" x 2 1/2"	88.90	70.00	73.38	72.85	44.50	48.00	0.17	
4" x 2"	114.30	58.00	60.63	60.17	38.50	58.00	0.42	
4" x 2 1/2"	114.30	70.00	73.38	72.85	44.50	58.00	0.42	
4" x 3"	114.30	86.00	89.31	88.70	48.00	58.00	0.35	
6" x 2"	168.28	58.00	60.63	60.17	38.50	77.00	1.20	
6" x 3"	168.28	86.00	89.31	88.70	48.00	77.00	1.28	
6" x 4"	168.28	110.00	114.74	114.07	58.00	77.00	1.30	
8" x 2"	219.08	57.00	60.63	60.17	38.50	102.00	2.30	
8" x 3"	219.08	85.00	89.31	88.70	48.00	102.00	2.35	
8" x 4"	219.08	110.00	114.74	114.10	58.00	102.00	2.37	
8" x 6"	219.08	164.00	168.83	168.00	77.00	102.00	2.30	
10" x 4"	273.05	110.00	114.74	114.07	58.00	127.00	4.50	
10" x 6"	273.05	164.00	168.83	168.00	77.00	127.00	3.00	
10" x 8"	273.05	214.00	219.84	218.70	102.00	127.00	2.50	
12" x 8"	323.85	214.00	219.84	218.70	102.00	152.50	5.50	
12" x 10"	323.85	268.00	273.81	272.67	127.00	152.50	6.40	
14" x 12"	353.60	318.00	324.61	323.47	152.50	178.00	34.00	
16" x 14"	406.40	350.00	352.55	355.00	178.00	202.00	44.00	



Tubería Ø ½" a 24"

PVC ASTM D1785 SCHEDULE 80 TUBE

NOMINAL SIZE	OUTSIDE DIAMETER		PVC SCHEDULE 80			
			WALL THICKNESS		WORKING PRESSURE	WEIGHT
	IN	MM	IN	MM	PSI @73°F	LB/FT
1/8"	0.41	10.41	0.095	2.41	1230	0.06
1/4"	0.54	13.72	0.119	3.02	1130	0.10
3/8"	0.68	17.15	0.126	3.20	920	0.14
1/2"	0.84	21.34	0.147	3.73	850	0.21
3/4"	1.05	26.67	0.154	3.91	690	0.28
1"	1.32	33.40	0.179	4.55	650	0.41
1 1/4"	1.66	42.16	0.191	4.85	520	0.57
1 1/2"	1.90	48.26	0.200	5.08	470	0.69
2"	2.38	60.33	0.218	5.54	400	0.96
2 1/2"	2.88	73.03	0.276	7.01	420	1.46
3"	3.50	88.90	0.300	7.62	370	1.95
4"	4.50	114.30	0.337	8.56	320	2.84
5"	5.56	141.30	0.375	9.53	290	3.95
6"	6.63	168.28	0.432	10.97	260	5.43
8"	8.63	219.08	0.500	12.70	250	8.25
10"	10.75	273.05	0.593	15.06	230	12.24
12"	12.75	323.85	0.687	17.45	230	16.83
14"	14.00	355.60	0.750	19.05	220	19.96
16"	16.00	406.40	0.843	21.41	220	26.55
18"	18.00	457.20	0.937	23.80	220	33.54
20"	20.00	508.00	1.031	26.19	220	41.05
24"	24.00	609.60	1.218	30.94	210	58.23

DERATING FACTOR

PVC	
TEMP (°C)	FACTOR
73	1.00
80	0.88
90	0.75
100	0.62
110	0.51
120	0.40
130	0.31
140	0.22



CPVC ASTM F441 SCHEDULE 80 TUBE



NOMINAL SIZE	OUTSIDE DIAMETER		CPVC SCHEDULE 80			
			WALL THICKNESS		WORKING PRESSURE	WEIGHT
	IN	MM	IN	MM	PSI @180°F	LB/FT
1/4"	0.54	13.72	0.119	3.02	285	0.12
3/8"	0.68	17.15	0.126	3.20	230	0.16
1/2"	0.84	21.34	0.147	3.73	215	0.24
3/4"	1.05	26.67	0.154	3.91	173	0.32
1"	1.32	33.40	0.179	4.55	158	0.47
1 1/4"	1.66	42.16	0.191	4.85	130	0.65
1 1/2"	1.90	48.26	0.200	5.08	118	0.79
2"	2.38	60.33	0.218	5.54	100	1.10
2 1/2"	2.88	73.03	0.276	7.01	105	1.67
3"	3.50	88.90	0.300	7.62	95	2.24
4"	4.50	114.30	0.337	8.56	80	3.20
6"	6.63	168.28	0.432	10.97	70	6.26
8"	8.63	219.08	0.500	12.70	65	9.51
10"	10.75	273.05	0.593	15.06	58	14.10
12"	12.75	323.85	0.687	17.45	58	19.39
14"	14.00	355.60	0.750	19.05	55	23.26
16"	16.00	406.40	0.843	21.41	55	29.89
18"	18.00	457.20	0.937	23.80	55	37.42
20"	20.00	508.00	1.031	26.19	55	45.88
24"	24.00	609.60	1.218	30.94	55	64.96

DERATING FACTOR

CPVC	
TEMP (°F)	FACTOR
73	1.00
80	1.00
90	0.91
100	0.82
110	0.72
120	0.65
130	0.57
140	0.50
150	0.42
160	0.40
170	0.29
180	0.25
200	0.20

PVC ASTM D1785 SCHEDULE 120 TUBE

NOMINAL SIZE	OUTSIDE DIAMETER		PVC SCHEDULE 120				CPVC SCHEDULE 120	
			WALL THICKNESS		WORKING PRESSURE	WEIGHT	WORKING PRESSURE	WEIGHT
	IN	MM	IN	MM	PSI @73°F	LB/FT	PSI @180°F	LB/FT
1/2"	0.84	21.34	0.170	4.32	1010	0.24	253	0.25
3/4"	1.05	26.67	0.170	4.32	770	0.31	193	0.34
1"	1.32	33.40	0.200	5.08	720	0.46	180	0.50
1 1/4"	1.66	42.16	0.215	5.46	600	0.65	150	0.70
1 1/2"	1.90	48.26	0.225	5.72	540	0.79	135	0.85
2"	2.38	60.33	0.250	6.35	470	1.11	118	1.20
2 1/2"	2.88	73.03	0.300	7.62	470	1.62	118	1.74
3"	3.50	88.90	0.350	8.89	440	2.31	110	2.49
4"	4.50	114.30	0.437	11.10	430	3.71	105	4.01
6"	6.63	168.28	0.562	14.27	370	7.13	93	7.70
8"	8.63	219.08	0.718	18.24	380	11.28	95	12.18

DERATING FACTOR

PVC	
TEMP (°F)	FACTOR
73	1.00
80	0.88
90	0.75
100	0.62
110	0.51
120	0.40
130	0.31
140	0.22

DERATING FACTOR

CPVC	
TEMP (°F)	FACTOR
80	1.00
90	0.91
100	0.82
110	0.72
120	0.65
130	0.57
140	0.50
150	0.42
160	0.40
170	0.29
180	0.25
200	0.20



Válvula Mariposa

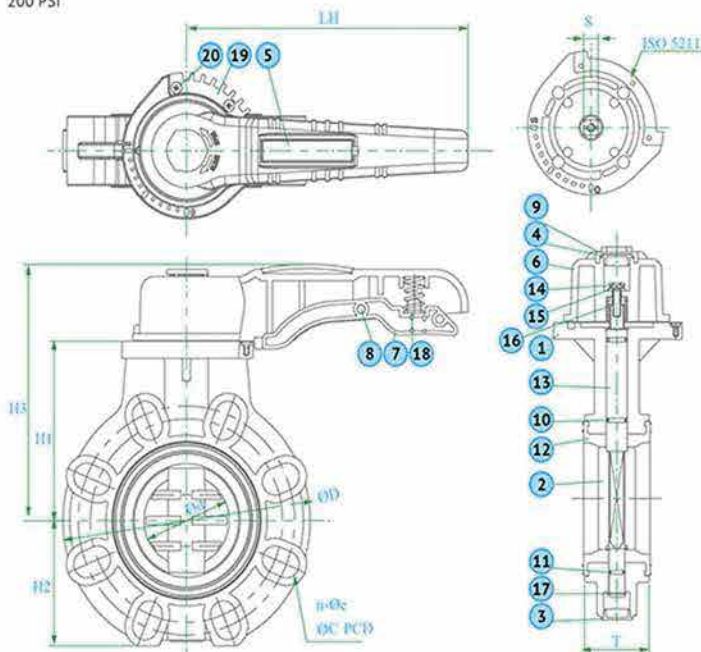
SIZE: 2" - 8"

JOINT END:

FLANGE TYPE - ANSI (150 LBS)
DIN (PN10) - JIS (10K)

WORKING PRESSURE:

200 PSI



CONSTRUCTION			
NO	PARTS	PCS	MATERIALS
1	BODY	1	PVC, CPVC
2	DISC	1	PVC, CPVC
3	BODY CAP	1	ABS
4	HANDLE CAP	1	ABS
5	HANDLE CAP	1	ABS
6	HANDLE	1	ABS
7	SMALL HANDLE	1	NYLON
8	PIN	1	NYLON
9	CLEAR CAP	1	AS
10	STEM O-RING	2	EPDM, FPM
11	STEM O-RING	1	EPDM, FPM
12	SEAT	1	EPDM, FPM
13	STEM	1	SUS410
14	BOLT	1	SUS304
15	WASHER	1	SUS304
16	INSERT	1	SUS304
17	C-RING	1	SUS304
18	SPRING	1	SUS304
19	GEAR	1	SUS304
20	BOLT	3	SUS304

PART	NOMINAL SIZE	FLANGE TYPE	LEVER HANDLE TYPE								UNIT OF MEASURE: MM				TORQUE @ 100 PSI	
		DN	n	e	D	d	T	S	H2	H1	H3	LH	ISO 5211	Open	Close	
STEF.0200	2"	DN 50	4	19	156	57	43	11	73	103	158	210	F 05/07	0.80	1.00	
STEF.0250	2 1/2"	DN 65	4	19	177	68	46	11	81	114	169	210	F 05/07	1.90	2.00	
STEF.0300	3"	DN 80	4	19	191	78	49	11	88	126	181	210	F 05/07	2.50	2.50	
STEF.0400	4"	DN 100	8	19	223	98	56	14	103	143	198	210	F 07	3.00	3.00	
STEF.0500	5"	DN 125	8	23	253	122	64	17	117	168	235	280	F 07/10	-	-	
STEF.0600	6"	DN 150	8	23	279	146	70	17	129	181	248	280	F 07/10	7.50	8.00	
STEF.0800	8"	DN 200	12	23	337	196	71	22	162	218	285	330	F 10	10.00	10.50	

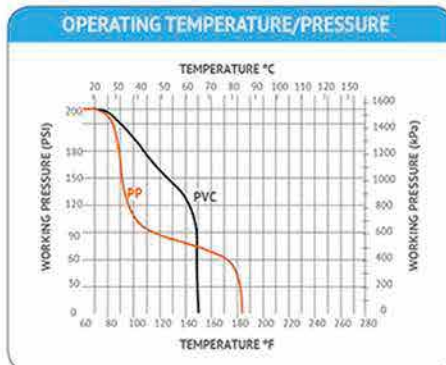
SELECTION CHART Lever Handle Operator and Gear Box Operator				
SIZE	MATERIAL	CONNECTION	SEALS	PRESSURE RATING
2" - 8"	PVC CPVC PP	FLANGE	EPDM or VITON	200 PSI @ 70F Non-Shock

CV FACTORS			
SIZE	FACTOR	SIZE	FACTOR
1 1/2"	-	5"	800
2"	110	6"	1000
2 1/2"	230	8"	2200
3"	280	10"	-
4"	440	12"	-

Pressure Loss
Calculation Formula

$$\Delta P = \left[\frac{Q}{C_v} \right]^2$$

ΔP = Pressure Drop
 Q = Flow in GPM
 C_v = Flow Coefficient

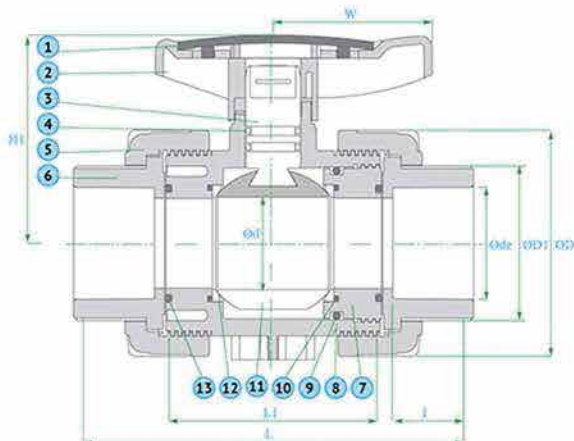


Válvula Bola Doble Unión Americana

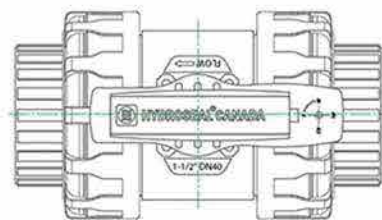
SIZE: 1/2" - 4"

JOINT END:
THREADED (PT,NPT,BSPF)
SOCKET (ASTM,DIN,JIS)

WORKING PRESSURE:
200 PSI



CONSTRUCTION			
NO	PARTS	PCS	MATERIALS
1	HANDLE CAP	1	ABS
2	HANDLE	1	ABS
3	STEM	1	PVC, CPVC
4	O-RING	2	EPDM, FPM
5	NUT	2	PVC, CPVC
6	CONNECTOR	2	PVC, CPVC
7	INSERT	1	PVC, CPVC
8	BODY	1	PVC, CPVC
9	O-RING	1	EPDM, FPM
10	O-RING	2	EPDM, FPM
11	BALL	1	PVC, CPVC
12	SEAT	2	PTFE
13	O-RING	2	EPDM, FPM



PART	NOMINAL SIZE	SOCKET, THREAD TYPE	UNIT OF MEASURE: MM							ASTM		DIN		JIS		W
			DN	D	D1	d	H1	L	L1	de	l	de	l	de	l	
KPES.0050	1/2"	DN 15		46.00	32.00	13.00	49.00	116.00	62.00	21.34	22.60	20.00	17.00	22.00	22.60	45.00
KPES.0075	3/4"	DN 20		56.00	38.00	19.00	60.00	133.00	72.00	26.67	25.50	25.00	19.50	26.00	25.50	52.00
KPES.0100	1"	DN 25		66.00	45.00	25.00	69.00	150.00	80.00	33.40	28.60	32.00	23.00	32.00	28.60	58.00
KPES.0125	1 1/4"	DN 32		82.00	55.00	31.00	76.00	168.00	87.00	42.16	31.90	40.00	27.00	38.00	31.90	66.00
KPES.0150	1 1/2"	DN 40		98.00	67.00	40.00	91.00	173.00	94.00	48.26	35.10	50.00	32.00	48.00	35.10	69.00
KPES.0200	2"	DN 50		120.00	81.00	50.00	110.00	206.00	112.00	60.32	38.20	63.00	37.50	60.00	38.20	81.00
KPES.0250	2 1/2"	DN 65		120.00	89.00	50.00	110.00	211.00	112.00	73.02	41.40	75.00	41.50	76.00	41.40	81.00
KPES.0300	3"	DN 80		162.00	108.00	75.00	140.00	262.00	147.00	88.90	48.00	90.00	51.00	89.00	51.00	118.00
KPES.0400	4"	DN 100		220.00	134.00	100.00	185.00	311.00	177.00	114.30	57.50	110.00	61.00	114.00	61.00	140.00

SELECTION CHART Lever Handle Operator and Gear Box Operator				
SIZE	MATERIAL	CONNECTION	SEALS	PRESSURE RATING
1/2" - 4"	PVC CPVC PP	SOCKET or THREAD	EPDM or VITON	200 PSI @ 70F Non-Shock

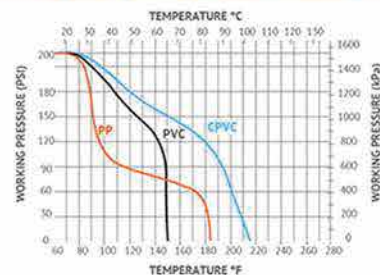
CV FACTORS			
SIZE	FACTOR	SIZE	FACTOR
1/4"	-	1 1/2"	90
3/8"	-	2"	140
1/2"	8	2 1/2"	330
3/4"	15	3"	480
1"	29	4"	600
1 1/4"	75	6"	-

Pressure Loss
Calculation Formula

$$\Delta P = \left[\frac{Q}{C_v} \right]^2$$

ΔP = Pressure Drop
 Q = Flow in GPM
 C_v = Flow Coefficient

OPERATING TEMPERATURE/PRESSURE



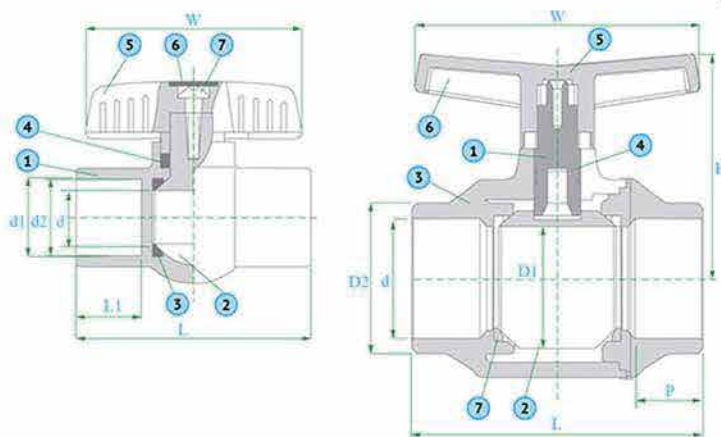
Válvula Bola Compacta

SIZE: 1/2" - 2"

JOINT END:
THREADED (PT.NPT.BSPF)
SOCKET (ASTM.DIN.JIS)

WORKING PRESSURE:
150 PSI

CONSTRUCTION			
NO	PARTS	PCS	MATERIALS
1	BODY	1	PVC, CPVC
2	STEM AND BALL	1	PVC, CPVC
3	SEAT	2	TEFLON
4	STEM O-RING	1	EPDM
5	HANDLE	1	ABS
6	CAP	1	ABS
7	BOLT	1	SUS304



SIZE: 2 1/2" - 6"

JOINT END:
THREADED (PT.NPT.BSPF)
SOCKET (ASTM.DIN.JIS)
WORKING PRESSURE:
150 PSI



PART	NOMINAL SIZE	SOCKET, THREADED TYPE		ASTM	JIS	DIN	ASTM	JIS	DIN	UNIT OF MEASURE: MM		
		DN	D							L	W	H
QKES.0050	1/2"	DN15	29	21.33	20.30	22.30	22.22	16.00	22.20	79	70	47
QKES.0075	3/4"	DN20	37	31.75	25.30	26.30	25.40	18.50	25.40	91	77	57
QKES.0100	1"	DN25	43	33.40	32.30	32.33	28.58	22.00	28.60	107	89	61
QKES.0125	1 1/4"	DN32	53	42.16	40.30	38.43	31.75	26.00	31.80	123	89	66
QKES.0150	1 1/2"	DN40	61	48.26	50.30	48.46	34.93	31.00	34.90	129	111	74
QKES.0200	2"	DN50	73	60.32	63.30	60.56	38.10	37.50	38.10	151	139	80
QKES.0250	2 1/2"	DN65	96	73.03	75.30	68.07	44.45	43.50	44.50	194	190	141
QKES.0300	3"	DN80	110	88.90	90.30	77.98	47.63	51.00	47.60	233	230	154
QKES.0400	4"	DN100	136	114.30	110.30	100.07	57.15	61.00	57.60	280	274	170
QKES.0600	6"	DN150	196	168.83	160.30	148.08	89.94	90.00	90.00	376	323	182

SELECTION CHART Lever Handle Operator and Gear Box Operator				
SIZE	MATERIAL	CONNECTION	SEALS	PRESSURE RATING
1/2" - 6"	PVC CPVC	SOCKET or THREAD	EPDM or VITON	150 PSI @ 70F Non-Shock

CV FACTORS			
SIZE	FACTOR	SIZE	FACTOR
1/4"	-	1 1/2"	110
3/8"	-	2"	217
1/2"	13	2 1/2"	304
3/4"	24	3"	452
1"	49	4"	510
1 1/4"	70	6"	-

Pressure Loss
Calculation Formula

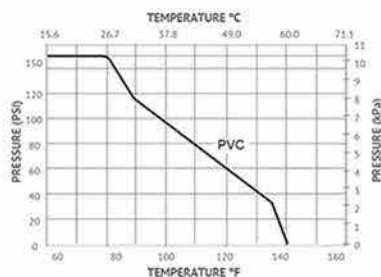
$$\Delta P = \left[\frac{Q}{C_v} \right]^2$$

ΔP = Pressure Drop

Q = Flow in GPM

C_v = Flow Coefficient

OPERATING TEMPERATURE/PRESSURE

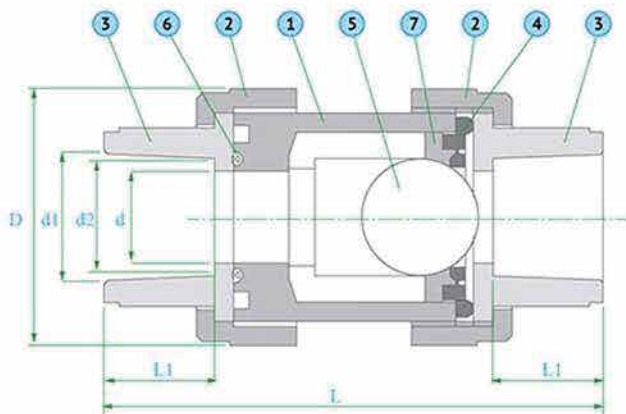


Válvula Retención Bola Libre Doble Unión Americana

SIZE: 1/2" ~ 2"

JOINT END:
THREADED (PT,NPT,BSPP)
SOCKET (ASTM,DIN,JIS)
WORKING PRESSURE:
200 PSI

CONSTRUCTION			
NO	PARTS	PCS	MATERIALS
1	BODY	1	PVC, CPVC, PP
2	UNION NUT	2	PVC, CPVC, PP
3	UNION END	2	PVC, CPVC, PP
4	SEAT	1	EPDM,VITON,SBR
5	BALL	1	PVC OR TEFLON
6	SEALING O-RING	1	EPDM
7	GLAND	1	PVC, CPVC, PP



PART	NOMINAL SIZE	SOCKET, THREAD TYPE		ASTM	DIN	JIS	ASTM	DIN	JIS	UNIT OF MEASURE: MM		
		DN	d	d1	d1	d1	d2	d2	d2	L	L1	D
SFES.0050	1/2"	DN 15	15.4	21.54	20.30	22.30	21.23	19.90	21.78	97.30	22.30	53.80
SFES.0075	3/4"	DN 20	20.0	26.87	25.30	26.30	26.57	24.90	25.70	112.00	26.10	61.70
SFES.0100	1"	DN 25	25.1	33.66	32.30	32.33	33.27	31.90	31.67	132.20	30.10	69.60
SFES.0125	1 1/4"	DN 32	32.0	42.42	40.30	38.43	42.04	39.85	37.57	135.50	30.10	82.50
SFES.0150	1 1/2"	DN 40	40.0	48.56	50.30	48.46	48.11	49.85	47.54	160.60	36.00	93.80
SFES.0200	2"	DN 50	49.4	60.63	63.30	60.56	60.17	62.85	59.44	184.60	44.10	104.90



SELECTION CHART Lever Handle Operator and Gear Box Operator				
SIZE	MATERIAL	CONNECTION	SEALS	PRESSURE RATING
1/2" ~ 4"	PVC CPVC PP	SOCKET or THREAD	EPDM or VITON	200 PSI @ 70F Non-Shock

CV FACTORS			
SIZE	FACTOR	SIZE	FACTOR
1/4"	-	1 1/2"	90
3/8"	-	2"	140
1/2"	15	2 1/2"	-
3/4"	29	3"	-
1"	75	4"	-
1 1/4"	75	6"	-

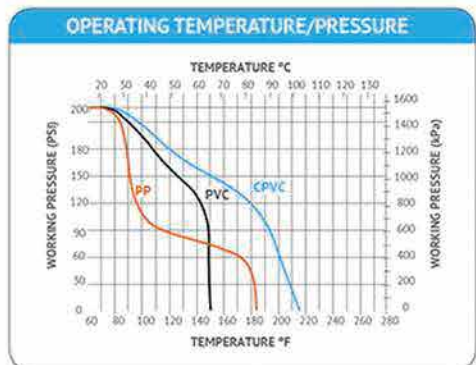
Pressure Loss
Calculation Formula

$$\Delta P = \left[\frac{Q}{C_v} \right]^2$$

ΔP = Pressure Drop

Q = Flow in GPM

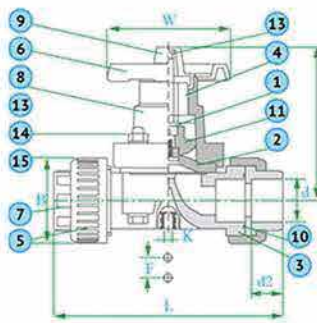
Cv = Flow Coefficient



Válvula Diafragma

SIZE: 1/2" ~ 2"

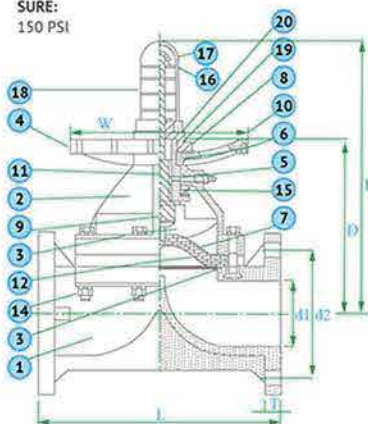
JOINT END:
THREADED (PT,NPT,BSPF)
SOCKET (ASTM,DIN,JIS)
WORKING PRESSURE:
150 PSI



SIZE: 2 1/2" ~ 10"

JOINT END:
FLANGED
SURE:
150 PSI

WORKING PRES-



CONSTRUCTION			
NO	PARTS	PCS	MATERIALS
1	SHAFT	1	BRASS
2	DIAPHRAGM	1	EPDM, TEFLON
3	BODY	1	PVC, PPL, CPVC, PVDF
4	SLEEVE	1	BRASS
5	UNION NUT	2	PVC, PPL, CPVC, PVDF
6	HANDLE	1	ABS
7	END CONNECTOR	2	PVC, PPL, CPVC, PVDF
8	BONNET	1	PVC, PPL, CPVC, PVDF
9	GAUGE COVER	1	PVC
10	O-RING	2	EPDM, VITON
11	COMPRESSOR	1	15-A, 25-A, PVDF
12	INDICATOR	1	PE
13	BOLT	4	SUS304
14	NUT	4	SUS304
15	WASHER	4	SUS304
16	Stopper	1	SS-41, SUS-304
17	Nut	1	SS-41, SUS-304
18	Gauge Cover	1	PC
19	Sheet Ring	1	EPDM
20	Washer	1	SUS 304



PART	NOMINAL SIZE	SOCKET, THREAD TYPE		ASTM		DIN		JIS		UNIT OF MEASURE: MM			
		DN	D	d1	d1	d1	d2	d2	d2	L	W	F	H1
AQES.0050	1/2"	DN 15	54	21.54	20.30	22.30	22.23	16.00	22.20	166	81	25	104
AQES.0075	3/4"	DN 20	54	26.87	25.30	26.30	25.40	18.50	25.40	166	81	25	104
AQES.0100	1"	DN 25	63	33.66	32.30	32.33	28.58	22.00	28.60	183	91	25	116
AQES.0125	1 1/4"	DN 32	89	42.42	40.30	38.43	31.75	26.00	31.80	238	117	45	142
AQES.0150	1 1/2"	DN 40	89	48.56	50.30	48.46	34.85	31.00	34.90	238	117	45	142
AQES.0200	2"	DN 50	101	60.63	63.30	60.56	38.10	37.50	38.10	273	150	45	176

PART	NOMINAL SIZE	SOCKET, THREAD TYPE		ASTM		DIN		JIS		UNIT OF MEASURE: MM			
		DN	D	d1	d1	d1	d2	d2	d2	L	W	F	H1
AQEF.0250	2 1/2"	DN 65	197	68.07	68.07	68.07	139.45	145.00	145.00	290	202	22	276
AQEF.0300	3"	DN 90	219	77.98	77.98	77.98	152.40	160.00	160.00	310	202	22	293
AQEF.0400	4"	DN 100	261	100.07	100.07	100.07	190.50	180.00	180.00	350	241	25	370
AQEF.0600	6"	DN 150	334	148.08	148.08	148.08	241.55	240.00	240.00	480	395	30	471
AQEF.0800	8"	DN 200	419	198.12	198.12	198.12	298.45	295.00	295.00	600	430	32	625
AQEF.1000	10"	DN 250	510	248.41	248.41	248.41	285.75	350.00	350.00	680	540	32	750

SELECTION CHART				
Lever Handle Operator and Gear Box Operator				
SIZE	MATERIAL	CONNECTION	SEALS	PRESSURE RATING
1/2" ~ 10"	PVC CPVC PP	SOCKET or FLANGE	EPDM or VITON	150 PSI @ 70F Non-Sheck

CV FACTORS			
SIZE	FACTOR	SIZE	FACTOR
1/2"	3	2 1/2"	91
3/4"	5	3"	117
1"	9	4"	187
1 1/4"	26	6"	3457
1 1/2"	31	8"	-
2"	43	10"	-

Pressure Loss
Calculation Formula

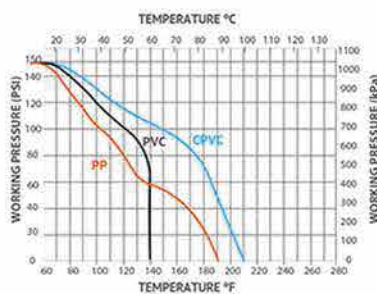
$$\Delta P = \left[\frac{Q}{C_v} \right]^2$$

ΔP = Pressure Drop

Q = Flow in GPM

C_v = Flow Coefficient

OPERATING TEMPERATURE/PRESSURE





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