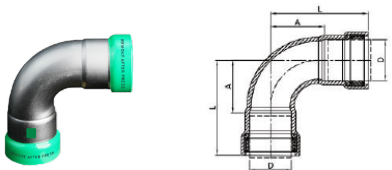
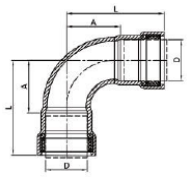
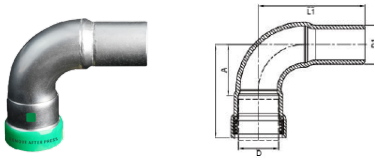
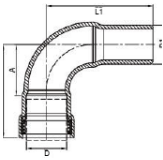

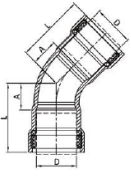
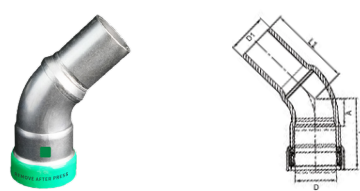
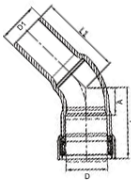


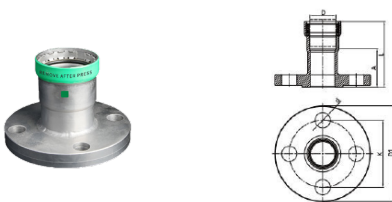
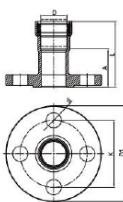
Mechanical & Fire Protection Systems

90° Elbow P x P		Item No.	Size(in) D	L(in)	A(in)
		100506005	1/2	2.24	1.17
		100506007	3/4	2.52	1.36
		100506010	1	3.07	1.72
		100506012	1 1/4	3.82	2.00
		100506015	1 1/2	4.13	2.26
		100506020	2	4.78	2.80

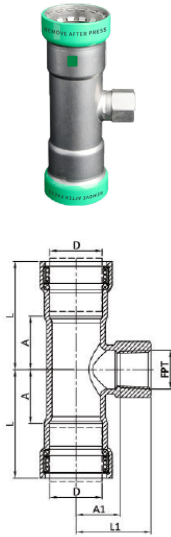
90° Elbow FTG x P		Item No.	Size(in) D x D1	L(in)	L1(in)	A(in)
		100509005	1/2 x 1/2	2.24	2.56	1.17
		100509007	3/4 x 3/4	2.52	2.87	1.36
		100509010	1 x 1	3.07	3.39	1.72
		100509012	1 1/4 x 1 1/4	3.82	4.04	2.00
		100509015	1 1/2 x 1 1/2	4.13	4.21	2.26
		100509020	2 x 2	4.78	5.08	2.80

45° Elbow P x P		Item No.	Size(in) D	L(in)	A(in)
		100517005	1/2	1.67	0.60
		100517007	3/4	1.87	0.71
		100517010	1	2.20	0.86
		100517012	1 1/4	2.80	0.98
		100517015	1 1/2	2.99	1.12
		100517020	2	3.31	1.32

45° Elbow FTG x P		Item No.	Size(in) D x D1	L(in)	L1(in)	A(in)
		100518005	1/2 x 1/2	1.67	1.97	0.60
		100518007	3/4 x 3/4	1.87	2.13	0.71
		100518010	1 x 1	2.20	2.52	0.86
		100518012	1 1/4 x 1 1/4	2.80	2.99	0.98
		100518015	1 1/2 x 1 1/2	2.99	3.07	1.12
		100518020	2 x 2	3.31	3.58	1.32

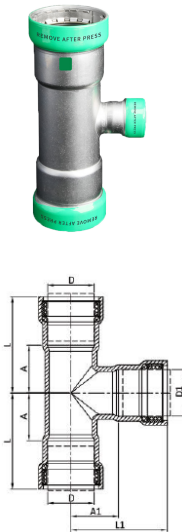
Flange P		Item No.	Size(in) D	L(in)	A(in)	D1(in)	K(in)	n-d
		100554005	1/2	2.58	1.51	3.54	2.36	4-0.63
		100554007	3/4	2.74	1.58	3.94	2.76	4-0.63
		100554010	1	3.10	1.75	4.33	3.11	4-0.63
		100554012	1 1/4	3.71	1.89	4.53	3.50	4-0.63
		100554015	1 1/2	3.93	2.06	4.92	3.86	4-0.63
		100554020	2	4.06	2.07	5.91	4.76	4-0.75

Tee P x P x FPT



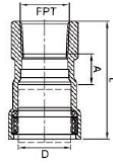
Item No.	Size(in) D x D x FPT	L(in)	L1(in)	A(in)	A1(in)
100502007	3/4 x 3/4 x 1/2	2.26	1.55	1.11	1.02
100502443	3/4 x 3/4 x 3/4	2.26	1.58	1.11	1.03
100502553	1 x 1 x 1/2	2.57	1.73	1.23	1.19
100502554	1 x 1 x 3/4	2.57	1.73	1.23	1.18
100502663	1 1/4 x 1 1/4 x 1/2	3.23	1.85	1.41	1.31
100502664	1 1/4 x 1 1/4 x 3/4	3.23	1.89	1.41	1.33
100502665	1 1/4 x 1 1/4 x 1	3.23	2.03	1.41	1.37
100502773	1 1/2 x 1 1/2 x 1/2	3.44	1.95	1.57	1.42
100502774	1 1/2 x 1 1/2 x 3/4	3.44	1.97	1.57	1.41
100502775	1 1/2 x 1 1/2 x 1	3.44	2.24	1.57	1.57
100502776	1 1/2 x 1 1/2 x 1 1/4	3.44	2.15	1.57	1.47
100502883	2 x 2 x 1/2	3.80	2.24	1.81	1.70
100502884	2 x 2 x 3/4	3.80	2.28	1.81	1.72
100502885	2 x 2 x 1	3.80	2.55	1.81	1.89
100502886	2 x 2 x 1 1/4	3.80	2.45	1.81	1.77
100502887	2 x 2 x 1 1/2	3.80	2.41	1.81	1.73

Tee P x P x P



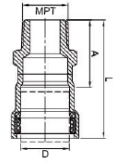
Item No.	Size(in) D x D x D1	L(in)	L1(in)	A(in)	A1(in)
100501005	1/2 x 1/2 x 1/2	2.04	2.00	0.97	0.93
100501007	3/4 x 3/4 x 3/4	2.26	2.24	1.11	1.09
100501010	1 x 1 x 1	2.57	2.57	1.23	1.23
100501012	1 1/4 x 1 1/4 x 1 1/4	3.23	3.20	1.41	1.38
100501015	1 1/2 x 1 1/2 x 1 1/2	3.44	3.41	1.57	1.54
100501020	2 x 2 x 2	3.80	3.79	1.81	1.80
100501443	3/4 x 3/4 x 1/2	2.26	2.14	1.11	1.07
100501553	1 x 1 x 1/2	2.57	2.28	1.23	1.20
100501554	1 x 1 x 3/4	2.57	2.40	1.23	1.24
100501663	1 1/4 x 1 1/4 x 1/2	3.23	2.42	1.41	1.35
100501664	1 1/4 x 1 1/4 x 3/4	3.23	2.55	1.41	1.39
100501665	1 1/4 x 1 1/4 x 1	3.23	2.73	1.41	1.38
100501773	1 1/2 x 1 1/2 x 1/2	3.44	2.51	1.57	1.44
100501774	1 1/2 x 1 1/2 x 3/4	3.44	2.64	1.57	1.48
100501775	1 1/2 x 1 1/2 x 1	3.44	2.83	1.57	1.48
100501776	1 1/2 x 1 1/2 x 1 1/4	3.44	3.32	1.57	1.50
100501883	2 x 2 x 1/2	3.80	2.81	1.81	1.74
100501884	2 x 2 x 3/4	3.80	2.95	1.81	1.80
100501885	2 x 2 x 1	3.80	3.10	1.81	1.75
100501886	2 x 2 x 1 1/4	3.80	3.60	1.81	1.78
100501887	2 x 2 x 1 1/2	3.80	3.71	1.81	1.84

Adapter P x FPT



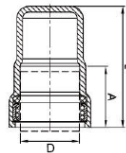
Item No.	Size(in) D x FPT	L(in)	A(in)
100535005	1/2 x 1/2	2.29	0.69
100535007	3/4 x 3/4	2.45	0.74
100535010	1 x 1	2.74	0.73
100535012	1 1/4 x 1 1/4	3.27	0.77
100535015	1 1/2 x 1 1/2	3.28	0.72
100535020	2 x 2	3.44	0.76

Adapter P x MPT



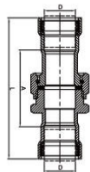
Item No.	Size(in) D x MPT	L(in)	A(in)
100536005	1/2 x 1/2	2.52	1.45
100536007	3/4 x 3/4	2.66	4.50
100536010	1 x 1	3.00	1.66
100536012	1 1/4 x 1 1/4	3.70	1.90
100536015	1 1/2 x 1 1/2	3.80	1.93
100536020	2 x 2	3.92	1.93

Tube Cap P



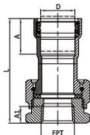
Item No.	Size(in) D	L(in)	A(in)
100547005	1/2	2.14	1.07
100547007	3/4	2.26	1.16
100547010	1	2.43	1.35
100547012	1 1/4	2.93	1.82
100547015	1 1/2	3.02	1.87
100547020	2	3.11	1.99

Union P x P



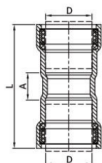
Item No.	Size(in) D	L(in)
100597005	1/2	4.50
100597007	3/4	4.99
100597010	1	5.34
100597012	1 1/4	6.48
100597015	1 1/2	6.63
100597020	2	7.89

Union P x FPT



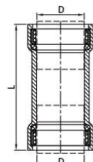
Item No.	Size(in) D x FPT	L(in)	A(in)	A1(in)
100596005	1/2 x 1/2	2.85	1.06	0.54
100596007	3/4 x 3/4	3.20	1.18	0.56
100596010	1 x 1	3.38	1.37	0.66
100596012	1 1/4 x 1 1/4	4.03	1.81	0.68
100596015	1 1/2 x 1 1/2	4.10	1.87	0.68
100596020	2 x 2	5.00	1.97	0.70

Coupling With Stop P x P



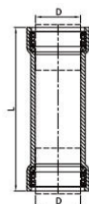
Item No.	Size(in) D	L(in)	A(in)
100529005	1/2	2.70	0.56
100529007	3/4	2.94	0.63
100529010	1	3.29	0.59
100529012	1 1/4	4.34	0.70
100529015	1 1/2	4.63	0.89
100529020	2	4.75	0.77

Coupling No Stop P x P



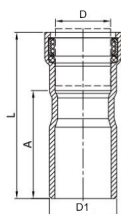
Item No.	Size(in) D	L(in)
100528005	1/2	2.71
100528007	3/4	2.94
100528010	1	3.29
100528012	1 1/4	4.34
100528015	1 1/2	4.63
100528020	2	4.74

Extended Coupling No Stop P x P



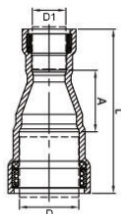
Item No.	Size(in) D	L(in)
100526005	1/2	3.82
100526007	3/4	4.00
100526010	1	4.38
100526012	1 1/4	5.33
100526015	1 1/2	5.44
100526020	2	5.63

Reducer FTG x P



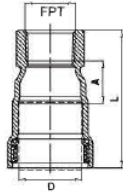
Item No.	Size(in) D1 x D	L(in)	A(in)
100537043	3/4 x 1/2	2.85	1.78
100537053	1 x 1/2	3.21	2.14
100537054	1 x 3/4	3.24	2.09
100537065	1 1/4 x 1	3.98	2.63
100537074	1 1/2 x 3/4	4.13	2.98
100537075	1 1/2 x 1	4.16	2.81
100537076	1 1/2 x 1 1/4	4.52	2.70
100537085	2 x 1	4.49	3.14
100537086	2 x 1 1/4	4.83	3.02
100537087	2 x 1 1/2	4.83	2.96

Reducer P x P



Item No.	Size(in) D x D1	L(in)	A(in)
100529043	3/4 x 1/2	3.43	1.20
100529053	1 x 1/2	3.79	1.37
100529054	1 x 3/4	3.74	1.24
100529064	1 1/4 x 3/4	4.37	1.40
100529065	1 1/4 x 1	4.39	1.23
100529076	1 1/2 x 1 1/4	4.90	1.21
100529086	2 x 1 1/4	5.27	1.45
100529087	2 x 1 1/2	5.26	1.43

Reducing Adapter P x FPT



Item No.	Size(in) D1 x D	L(in)	A(in)
100535043	3/4 x 1/2	2.43	0.73
100535053	1 x 1/2	2.91	1.03
100535054	1 x 3/4	2.68	0.78
100535063	1 1/4 x 1/2	3.50	1.15
100535064	1 1/4 x 3/4	3.48	1.11
100535065	1 1/4 x 1	4.24	0.76
100535073	1 1/2 x 1/2	3.72	1.31
100535074	1 1/2 x 3/4	3.70	1.27
100535075	1 1/2 x 1	3.64	1.11
100535076	1 1/2 x 1 1/4	3.41	0.86
100535083	2 x 1/2	4.06	1.56
100535084	2 x 3/4	4.08	1.54
100535085	2 x 1	4.00	1.25
100535086	2 x 1 1/4	3.93	1.28
100535087	2 x 1 1/2	3.70	1.03