



PLASTIC PUSH-IN FITTINGS

One Touch Grey Line

10 Bar Rated



Features:

- Convenient One Touch Grey Line fittings provide instant connections
- Elliptical release ring facilitates pneumatic installation in confined spaces
- Light manual pressure on the elliptical release ring is all that is required to instantly disconnect each tube; no special tools required
- Nickel-plated brass ensures anti-corrosion and anti-contamination
- All taper threaded fittings are pre-coated with PTFE sealant and require no additional sealing

**Working Temperature:**

-10°C to +60°C

**Working Pressure**

-0.8 bar 10 bar

*Dependent upon tubing specification.

Construction:

Resin Body:	Technopolymer resin
Metal Body:	Nickel-plated brass
Packing:	Nitrile
Back O-Ring:	POM
O-Ring:	Nitrile
Collar:	Nickel-plated zinc
Collet:	Technopolymer resin
Collet Ring:	Nickel-plated brass
Sleeve:	POM

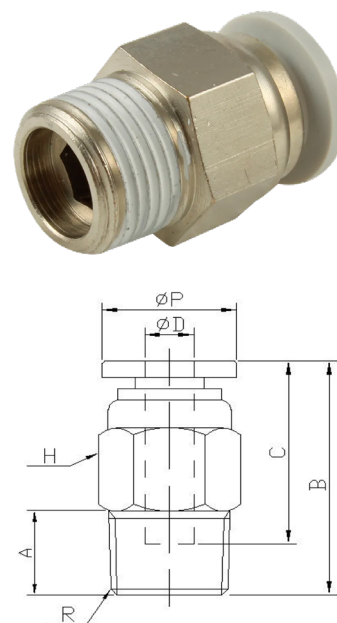
One Touch Plastic Push-in Fittings, Grey Line



Male Studs

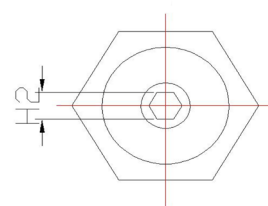
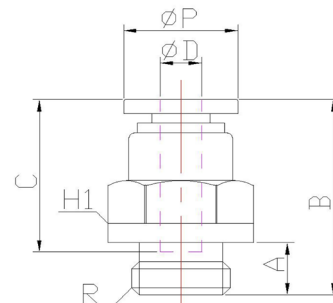
Male Thread, Metric x BSPT

Product Code	Ø D	R	Ø P	A	B	C	H
2499-5513	4	M5	10	4	21	15	10
2499-5512	4	M6	10	5	22	15	10
2499-5511	4	R1/8"	10	7.5	20.5	15	10
2499-5510	4	R1/4"	10	9	19	15	14
2499-5509	4	R3/8"	10	11	22	15	17
2499-5508	6	M5	12.8	4	22	15.6	12
2499-5507	6	M6	12.8	5	24.5	15.6	12
2499-5506	6	R1/8"	12.8	7.5	21.5	15.6	12
2499-5505	6	R1/4"	12.8	9	22	15.6	14
2499-5504	6	R3/8"	12.8	11	22.5	15.6	17
2499-5503	6	R1/2"	12.8	13	24.5	15.6	21
2499-5502	8	R1/8"	13.8	7.5	26.3	17.5	14
2499-5501	8	R1/4"	13.8	9	24.3	17.5	14
2499-5500	8	R3/8"	13.8	11	23.6	17.5	17
2499-5499	8	R1/2"	13.8	13	25.3	17.5	21
2499-5498	10	R1/8"	16.8	7.5	28	18.5	17
2499-5497	10	R1/4"	16.8	9	29	18.5	17
2499-5496	10	R3/8"	16.8	11	27.3	18.5	17
2499-5495	10	R1/2"	16.8	13	26.3	18.5	21
2499-5494	12	R1/4"	19.8	9	30	19.5	19
2499-5493	12	R3/8"	19.8	11	28.9	19.5	19
2499-5492	12	R1/2"	19.8	13	29	19.5	21
2499-5172	14	R3/8"	22.8	11	33.6	21.5	22
2499-5171	14	R1/2"	22.8	13	32	21.5	22
2499-5170	16	R3/8"	24.5	11	35.5	22.5	24
2499-5169	16	R1/2"	24.5	13	34.5	22.5	24



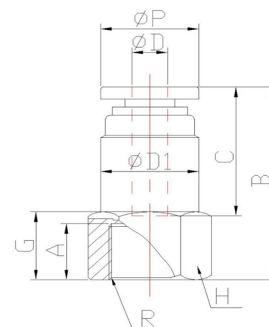
Male Thread, BSPP

Product Code	Ø D	R	Ø P	A	B	C	H1	H2
2499-5491	4	G1/8"	10	5.5	20	15	12	3
2499-5490	4	G1/4"	10	6	19	15	14	3
2499-5489	6	G1/8"	12.8	5.5	24.5	15.6	12	4
2499-5488	6	G1/4"	12.8	6	20.5	15.6	14	4
2499-5487	6	G3/8"	12.8	6.5	20.5	15.6	17	4
2499-5486	8	G1/2"	13.8	5.5	25.5	17.5	14	4
2499-5485	8	G1/8"	13.8	6	23	17.5	14	6
2499-5484	8	G1/4"	13.8	6.5	21.5	17.5	17	6
2499-5483	8	G3/8"	13.8	8	23	17.5	19	6
2499-5482	10	G1/2"	16.8	5.5	27	18.5	17	4
2499-5481	10	G1/4"	16.8	6	27.5	18.5	17	6
2499-5480	10	G3/8"	16.8	6.5	25.3	18.5	17	8
2499-5479	10	G1/2"	16.8	8	25.8	18.5	19	8
2499-5478	12	G1/4"	19.8	6	28.5	19.5	19	6
2499-5477	12	G3/8"	19.8	6.5	25.5	19.5	19	8
2499-5476	12	G1/2"	19.8	8	26.5	19.5	19	8
2499-5168	14	G3/8"	22.8	6.5	31.3	21.5	22	8
2499-5167	14	G1/2"	22.8	8	28.3	21.5	24	12
2499-5166	16	G3/8"	24.5	6.5	33.5	22.5	24	8
2499-5165	16	G1/2"	24.5	8	33.5	22.5	24	12



Female Thread, BSPP

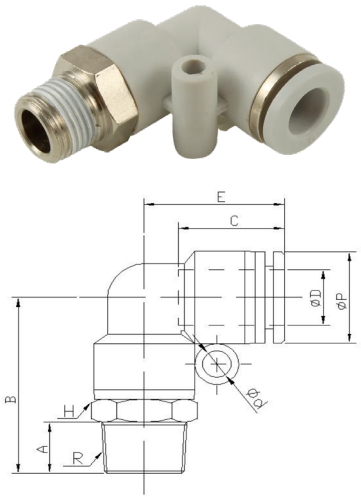
Product Code	Ø D	Ø D1	R	Ø P	A	B	C	G	H
2499-5475	4	11	G1/8"	10	7	23.5	15	9	12
2499-5474	4	11	G1/4"	10	7.5	25.5	15	9.5	17
2499-5473	6	13	G1/8"	12.8	7	24	15.6	9	14
2499-5472	6	13	G1/4"	12.8	7.5	26	15.6	9.5	17
2499-5471	6	13	G3/8"	12.8	8	26.5	15.6	10	19
2499-5470	8	15	G1/8"	13.8	7	26.5	17.5	9	17
2499-5469	8	15	G1/4"	13.8	7.5	28	17.5	9.5	17
2499-5468	8	15	G3/8"	13.8	8	29	17.5	10	19
2499-5467	8	15	G1/2"	13.8	10	31	17.5	12	24
2499-5466	10	18	G1/8"	16.8	7	29	18.5	9	19
2499-5465	10	18	G1/4"	16.8	7.5	29.3	18.5	9.5	19
2499-5464	10	18	G3/8"	16.8	8	31	18.5	10	19
2499-5463	10	18	G1/2"	16.8	10	32	18.5	12	24
2499-5462	12	20	G1/4"	19.8	7.5	29	19.5	9.5	21
2499-5461	12	20	G3/8"	19.8	8	30.5	19.5	10	21
2499-5460	12	20	G1/2"	19.8	10	32.5	19.5	12	24
2499-5164	14	22	G3/8"	22.8	8	31.5	21.5	10	22
2499-5163	14	23	G1/2"	22.8	10	32.5	21.5	12	24
2499-5162	16	24	G3/8"	24.5	8	34.8	22.5	10	24
2499-5161	16	24	G1/2"	24.5	10	36.5	22.5	12	24



Male Stud Swivel Elbows

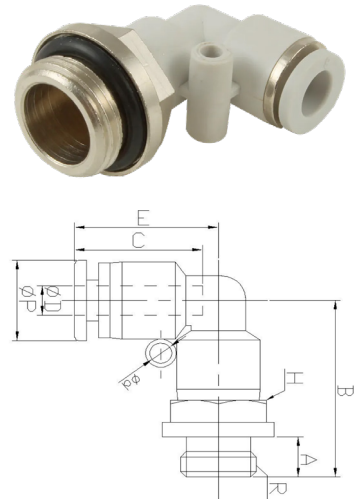
Male Thread, Metric & BSPT

Product Code	Ø D	R	Ø P	A	B	C	E	H	Ø d
2499-5459	4	M5	10	4	23	15.5	17.5	10	3.2
2499-5458	4	M6	10	5	24	15.5	17.5	10	3.2
2499-5457	4	R1/8"	10	7.5	25	15.5	17.5	10	3.2
2499-5456	4	R1/4"	10	9	26.5	15.5	17.5	14	3.2
2499-5455	6	M5	12.8	4	25.7	16.6	20.5	12	3.2
2499-5454	6	M6	12.8	5	26.7	16.6	20.5	12	3.2
2499-5453	6	R1/8"	12.8	7.5	27.7	16.6	20.5	12	3.2
2499-5452	6	R1/4"	12.8	9	29.2	16.6	20.5	14	3.2
2499-5451	6	R3/8"	12.8	11	31.7	16.6	20.5	17	3.2
2499-5450	6	R1/2"	13.1	12	35	14.1	21.5	21	3
2499-5449	8	R1/8"	13.8	7.5	30.5	18	24	14	3.2
2499-5448	8	R1/4"	13.8	9	32	18	24	14	3.2
2499-5447	8	R3/8"	13.8	11	34.5	18	24	17	3.2
2499-5446	8	R1/2"	13.8	13	37	18	24	21	3.2
2499-5445	10	R1/8"	16.8	7.5	33.4	19.6	26.3	17	3.2
2499-5444	10	R1/4"	16.8	9	34.9	19.6	26.3	17	3.2
2499-5443	10	R3/8"	16.8	11	36.9	19.6	26.3	17	3.2
2499-5442	10	R1/2"	16.8	13	39.4	19.6	26.3	21	3.2
2499-5441	12	R1/4"	19.8	9	35.7	20.8	27.3	19	3.2
2499-5440	12	R3/8"	19.8	11	37.7	20.8	27.3	19	3.2
2499-5439	12	R1/2"	19.8	13	40.2	20.8	27.3	19	3.2
2499-5160	14	R3/8"	22.8	11	39.5	22.5	29.8	22	4
2499-5159	14	R1/2"	22.8	13	41.5	22.5	29.8	22	4
2499-5158	16	R3/8"	24.5	11	41.5	22.6	31.2	24	3.2
2499-5157	16	R1/2"	24.5	13	43.5	22.6	31.2	24	3.2



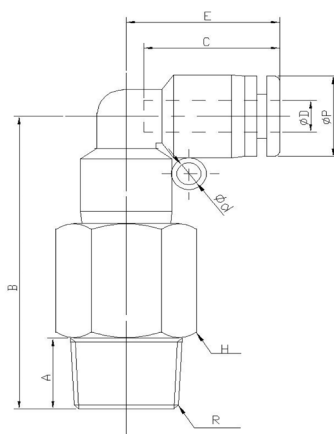
Male Thread, BSPP

Product Code	Ø D	R	Ø P	A	B	C	E	H	Ø d
2499-5438	4	G1/8"	10	5.5	23.2	15.5	17.5	12	3.2
2499-5437	4	G1/4"	10	6	25.5	15.5	17.5	14	3.2
2499-5436	6	G1/8"	12.8	5.5	27	16.6	20.5	12	3.2
2499-5435	6	G1/4"	12.8	6	27.5	16.6	20.5	14	3.2
2499-5434	6	G3/8"	12.8	6.5	28.5	16.6	20.5	17	3.2
2499-5433	8	G1/8"	13.8	5.5	30	18	24	14	3.2
2499-5432	8	G1/4"	13.8	6	30.5	18	24	14	3.2
2499-5431	8	G3/8"	13.8	6.5	31.5	18	24	17	3.2
2499-5430	8	G1/2"	13.8	8	33.2	18	24	21	3.2
2499-5429	10	G1/8"	16.8	5.5	33	19.6	26.3	17	3.2
2499-5428	10	G1/4"	16.8	6	33.5	19.6	26.3	17	3.2
2499-5427	10	G3/8"	16.8	6.5	34	19.6	26.3	21	3.2
2499-5426	10	G1/2"	16.8	8	35.5	19.6	26.3	21	3.2
2499-5425	12	G1/4"	19.8	6	34.2	20.8	27.3	19	3.2
2499-5424	12	G3/8"	19.8	6.5	34.7	20.8	27.3	21	3.2
2499-5423	12	G1/2"	19.8	8	36.2	20.8	27.3	21	3.2
2499-5156	14	G3/8"	22.8	6.5	37	22.5	29.8	22	4
2499-5155	14	G1/2"	22.8	8	38	22.5	29.8	24	4
2499-5154	16	G3/8"	24.5	6.5	38.5	22.6	31.2	24	3.2
2499-5153	16	G1/2"	24.5	8	39.5	22.6	31.2	24	3.2



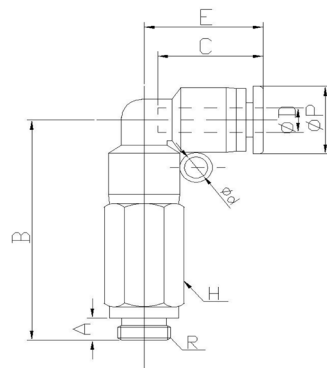
Extended Male Thread, Metric & BSPT

Product Code	Ø D	R	Ø P	A	B	C	E	H	Ø d
2499-5422	4	M5	10	4	33.5	15.5	17.5	10	3.2
2499-5421	4	R1/8"	10	7.5	33.5	15.5	17.5	10	3.2
2499-5420	4	R1/4"	10	9	35	15.5	17.5	14	3.2
2499-5419	6	M5	12.8	4	38.5	16.6	20.5	12	3.2
2499-5418	6	R1/8"	12.8	7.5	38.5	16.6	20.5	12	3.2
2499-5417	6	R1/4"	12.8	9	41.5	16.6	20.5	14	3.2
2499-5416	6	R3/8"	12.8	11	44	16.6	20.5	17	3.2
2499-5415	8	R1/8"	13.8	7.5	42	18	24	14	3.2
2499-5414	8	R1/4"	13.8	9	43.5	18	24	14	3.2
2499-5413	8	R3/8"	13.8	11	46	18	24	17	3.2
2499-5412	10	R1/8"	16.8	7.5	49.2	19.6	26.3	17	3.2
2499-5411	10	R1/4"	16.8	9	50.7	19.6	26.3	17	3.2
2499-5410	10	R3/8"	16.8	11	52.7	19.6	26.3	17	3.2
2499-5409	10	R1/2"	16.8	13	55.2	19.6	26.3	21	3.2
2499-5408	12	R1/4"	19.8	9	53.5	20.8	27.3	19	3.2
2499-5407	12	R1/2"	19.8	13	58	20.8	27.3	21	3.2



Extended Male Thread, BSPP

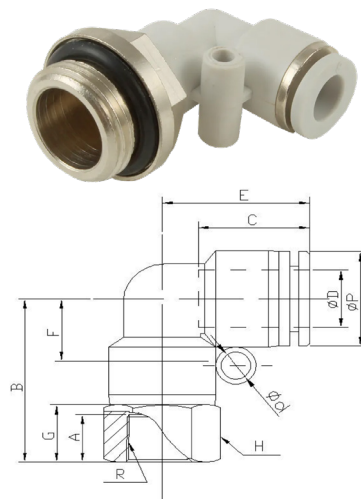
Product Code	Ø D	R	Ø P	A	B	C	E	H	Ø d
2499-5406	4	G1/8"	10	5.5	34.5	15.5	17.5	14	3.2
2499-5405	4	G1/4"	10	6	35	15.5	17.5	17	3.2
2499-5404	6	G1/8"	12.8	5.5	40	16.6	20.5	14	3.2
2499-5403	6	G1/4"	12.8	6	42	16.6	20.5	17	3.2
2499-5402	6	G3/8"	12.8	6.5	43.5	16.6	20.5	21	3.2
2499-5401	8	G1/8"	13.8	5.5	44	18	24	14	3.2
2499-5400	8	G1/4"	13.8	6	45	18	24	17	3.2
2499-5399	10	G1/8"	16.8	5.5	50.5	19.6	26.3	17	3.2
2499-5398	10	G1/4"	16.8	6	52.2	19.6	26.3	17	3.2
2499-5397	10	G3/8"	16.8	6.5	52.2	19.6	26.3	21	3.2
2499-5396	12	G3/8"	19.8	6.5	54.5	20.8	27.3	21	3.2



Female Stud Elbows

Female Thread, BSPP

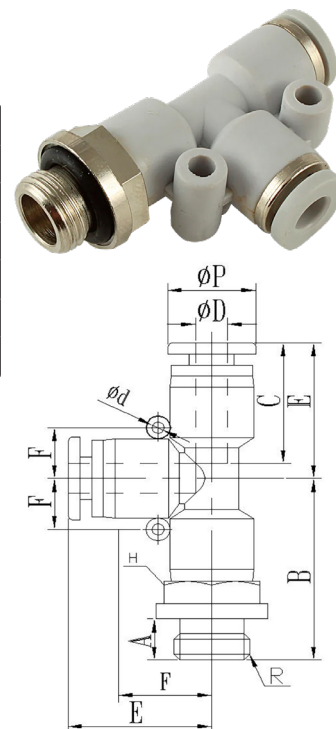
Product Code	Ø D	R	Ø P	A	B	C	E	G	H	Ø d
2499-5143	4	G1/8"	10	7	22.7	15.5	17.5	9	12	3.2
2499-5142	4	G1/4"	10	7.5	23.2	15.5	17.5	9.5	17	3.2
2499-5141	6	G1/8"	12.8	7	25.2	16.6	20.5	9	12	3.2
2499-5140	6	G1/4"	12.8	7.5	25.7	16.6	20.5	9.5	17	3.2
2499-5139	6	G3/8"	12.8	8	26.2	16.6	20.5	10	19	3.2
2499-5138	8	G1/8"	13.8	7	28	18	24	9	14	3.2
2499-5137	8	G1/4"	13.8	7.5	28.5	18	24	9.5	17	3.2
2499-5136	8	G3/8"	13.8	8	29	18	24	10	19	3.2
2499-5135	8	G1/2"	13.8	10	31	18	24	12	24	3.2
2499-5134	10	G1/8"	16.8	7	30.4	19.6	26.3	9	17	3.2
2499-5133	10	G1/4"	16.8	7.5	30.9	19.6	26.3	9.5	17	3.2
2499-5132	10	G3/8"	16.8	8	31.4	19.6	26.3	10	19	3.2
2499-5131	10	G1/2"	16.8	10	33.4	19.6	26.3	12	24	3.2
2499-5130	12	G1/4"	19.8	7.5	31.7	20.8	27.3	9.5	19	3.2
2499-5129	12	G3/8"	19.8	8	32.2	20.8	27.3	10	19	3.2
2499-5128	12	G1/2"	19.8	10	34.2	20.8	27.3	12	24	3.2



Male Stud Swivel Tees

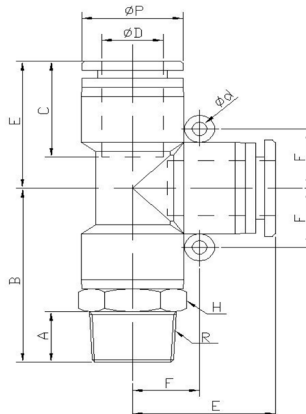
Run Male Thread, BSPP

Product Code	Ø D	R	Ø P	A	B	C	E	F	H	Ø d
2499-5395	4	G1/8"	10	5.5	23	15	17.3	8	12	3.4
2499-5394	4	G1/4"	10	6	25.3	15	17.3	8	14	3.4
2499-5393	6	G1/8"	12.8	5.5	26.5	16.5	19.8	8.4	12	3.2
2499-5392	6	G1/4"	12.8	6	27	16.5	19.8	8.4	14	3.2
2499-5391	8	G1/4"	13.8	6	30	19	23.2	10.2	14	3.4
2499-5390	10	G1/4"	16.8	6	33.2	19.3	26.1	12.1	17	4



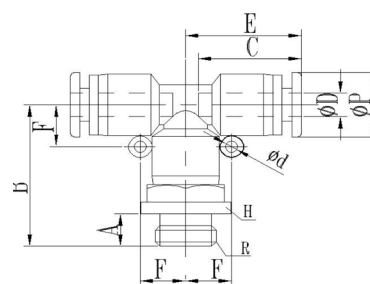
Run Male Thread, BSPT

Product Code	Ø D	R	Ø P	A	B	C	E	F	H	Ø d
2499-5207	4	M5	10	4	23	15	17.3	8	10	3.4
2499-5206	4	R1/8"	10	7.5	24.5	15	17.3	8	10	3.4
2499-5205	4	R1/4"	10	9	26.5	15	17.3	8	14	3.4
2499-5204	6	M5	12.8	4	25	16.5	19.8	8.4	12	3.2
2499-5203	6	R1/8"	12.8	7.5	27.5	16.5	19.8	8.4	12	3.2
2499-5202	6	R1/4"	12.8	9	29	16.5	19.8	8.4	14	3.2
2499-5201	6	R3/8"	12.8	11	31.5	16.5	19.8	8.4	17	3.2
2499-5200	6	R1/2"	12.8	12	34	16.5	19.8	8.4	31	3
2499-5199	8	R1/8"	13.8	7.5	29.5	19	23.2	10.2	14	3.4
2499-5198	8	R1/4"	13.8	9	31	19	23.2	10.2	14	3.4
2499-5197	8	R3/8"	13.8	11	33.5	19	23.2	10.2	17	3.4
2499-5196	8	R1/2"	13.8	13	36	19	23.2	10.2	21	3.4
2499-5195	10	R1/8"	16.8	7.5	33.2	19.3	26.1	12.1	17	4
2499-5194	10	R1/4"	16.8	9	34.7	19.3	26.1	12.1	17	4
2499-5193	10	R3/8"	16.8	11	36.7	19.3	26.1	12.1	17	4
2499-5192	10	R1/2"	16.8	13	39.2	19.3	26.1	12.1	21	4
2499-5191	12	R1/4"	19.8	9	35.5	20.6	26.9	13	19	3.2



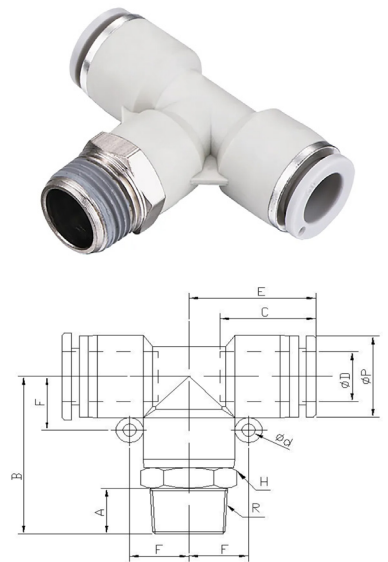
Branch Male Thread, BSPP

Product Code	Ø D	R	Ø P	A	B	C	E	F	H	Ø d
2499-5389	4	G1/8"	10	5.5	23	15	17.3	8	12	3.4
2499-5388	4	G1/4"	10	6	25.3	15	17.3	8	14	3.4
2499-5387	6	G1/8"	12.8	5.5	26.5	16.5	19.8	8.4	12	3.2
2499-5386	6	G1/4"	12.8	6	27	16.5	19.8	8.4	14	3.2
2499-5385	6	G3/8"	12.8	6.5	28.5	16.5	19.8	8.4	17	3.2
2499-5384	8	G1/8"	13.8	5.5	29.2	19	23.2	10.2	14	3.4
2499-5383	8	G1/4"	13.8	6	30	19	23.2	10.2	14	3.4
2499-5382	8	G3/8"	13.8	6.5	31	19	23.2	10.2	17	3.4
2499-5381	8	G1/2"	13.8	8	32.5	19	23.2	10.2	19	3.4
2499-5380	10	G1/8"	16.8	5.5	32.7	19.3	26.1	12.1	17	4
2499-5379	10	G1/4"	16.8	6	33.2	19.3	26.1	12.1	17	4
2499-5378	10	G3/8"	16.8	6.5	33.7	19.3	26.1	12.1	21	4
2499-5208	10	G1/2"	16.8	8	35.2	19.3	26.1	12.1	21	4
2499-5377	12	G1/4"	19.8	6	33.8	20.6	26.9	13	19	3.2
2499-5376	12	G3/8"	19.8	6.5	34.3	20.6	26.9	13	19	3.2
2499-5375	12	G1/2"	19.8	8	35.8	20.6	26.9	13	21	3.2



Branch Male Thread, Metric & BSPT

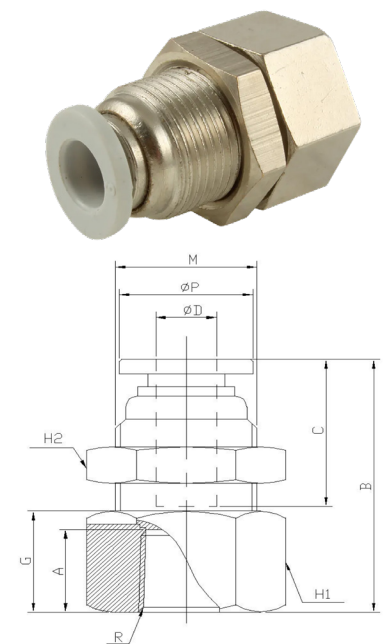
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2499-5188	4	M5	10	4	23	15	17.3	8	10	3.4
2499-5187	4	R1/8"	10	7.5	24.5	15	17.3	8	10	3.4
2499-5186	4	R1/4"	10	9	26.5	15	17.3	8	14	3.4
2499-5185	4	R3/8"	10	11	29.5	15	17.3	8	17	3.4
2499-5184	6	M5	12.8	4	25	16.5	19.8	8.4	12	3.2
2499-5183	6	R1/8"	12.8	7.5	27.5	16.5	19.8	8.4	12	3.2
2499-5182	6	R1/4"	12.8	9	29	16.5	19.8	8.4	14	3.2
2499-5181	8	R1/8"	13.8	7.5	29.5	19	23.2	10.2	14	3.4
2499-5180	8	R3/8"	13.8	11	33.5	19	23.2	10.2	17	3.4
2499-5179	8	R1/2"	13.8	13	36	19	23.2	10.2	21	3.4
2499-5178	10	R3/8"	16.8	11	36.7	19.3	26.1	12.1	17	4
2499-5177	10	R1/2"	16.8	13	39.2	19.3	26.1	12.1	21	4
2499-5176	12	R3/8"	19.8	11	38	20.6	26.9	13	19	3.2
2499-5175	12	R1/2"	19.8	13	40	20.6	26.9	13	21	3.2
2499-5174	16	R3/8"	24.5	11	43	25.1	32.2	15.8	24	3.6
2499-5173	16	R1/2"	24.5	13	45	25.1	32.2	15.8	24	3.6



Female Stud Bulkhead Connectors

Female Thread, BSPP

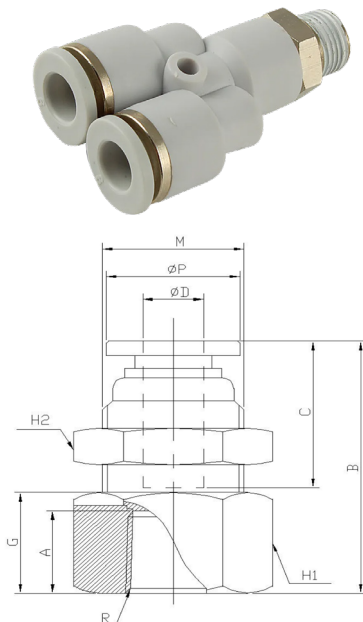
Product Code	Ø D	R	Ø P	A	B	C	G	H1	H2	M
2499-5357	4	G1/8"	10	7	23.5	15	9	14	14	M12 x 1
2499-5356	4	G1/4"	10	7.5	25.5	15	9.5	17	14	M12 x 1
2499-5355	6	G1/8"	12.8	7	24	15.6	9	9	17	M14 x 1
2499-5354	6	G1/4"	12.8	7.5	26	15.6	9.5	9.5	17	M14 x 1
2499-5353	6	G3/8"	12.8	8	26.5	15.6	10	10	17	M14 x 1
2499-5352	8	G1/8"	13.8	7	26.5	17.5	9	9	19	M16 x 1
2499-5351	8	G1/4"	13.8	7.5	28	17.5	9.5	9.5	19	M16 x 1
2499-5350	8	G3/8"	13.8	8	29	17.5	10	10	19	M16 x 1
2499-5349	8	G1/2"	13.8	10	31	17.5	12	12	19	M16 x 1
2499-5348	10	G1/8"	16.8	7	29	18.5	8.5	8.5	24	M20 x 1
2499-5347	10	G1/4"	16.8	7.5	29.5	18.5	9.5	9.5	24	M20 x 1
2499-5346	10	G3/8"	16.8	8	31	18.5	10	10	24	M20 x 1
2499-5345	10	G1/2"	16.8	10	31.5	18.5	12	12	24	M20 x 1
2499-5344	12	G1/4"	19.8	7.5	29	19.5	9.5	9.5	26	M22 x 1
2499-5343	12	G3/8"	19.8	8	30.5	19.5	10	10	26	M22 x 1
2499-5342	12	G1/2"	19.8	10	32.5	19.5	12	12	26	M22 x 1



Male Stud Swivel Ys

Male Thread, Metric & BSPT

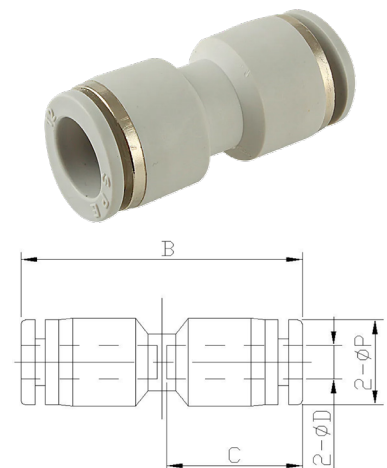
Product Code	Ø D	R	Ø P	A	B	C	E	F	H	Ø d
2499-5374	4	M5	10	4	39.3	15.5	10.5	14	10	3.2
2499-5373	4	R1/8"	10	7.5	40.8	15.5	10.5	14	10	3.2
2499-5372	6	M5	12.8	4	42	16	12.7	15	12	3.2
2499-5371	6	R1/8"	12.8	7.5	44	16	12.7	15	12	3.2
2499-5370	6	R1/4"	12.8	9	45.5	16	12.7	15	14	3.2
2499-5369	6	R3/8"	12.8	11	48	16	12.7	15	17	3.2
2499-5368	8	R1/8"	13.8	7.5	45.5	18	14	16	14	3.2
2499-5367	8	R1/4"	13.8	9	47	18	14	16	14	3.2
2499-5366	8	R3/8"	13.8	11	49.5	18	14	16	17	3.2
2499-5365	8	R1/2"	13.8	13	52	18	14	16	21	3.2
2499-5364	10	R1/8"	16.8	7.5	55.8	20.2	17.8	20.4	17	4
2499-5363	10	R1/4"	16.8	9	57.3	20.2	17.8	20.4	17	4
2499-5362	10	R3/8"	16.8	11	59.3	20.2	17.8	20.4	17	4
2499-5361	10	R1/2"	16.8	13	61.8	20.2	17.8	20.4	21	4
2499-5360	12	R1/4"	19.8	9	60.2	22	20.6	21.1	19	4
2499-5359	12	R3/8"	19.8	11	62.2	22	20.6	21.1	19	4
2499-5358	12	R1/2"	19.8	13	64.7	22	20.6	21.1	21	4



Tube x Tube Connectors

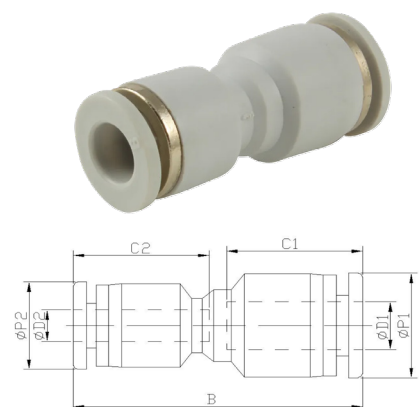
Equal Straights

Product Code	Ø D	Ø P	B	C
2499-5341	4	10	31.3	15
2499-5340	6	12.8	34.7	16.8
2499-5339	8	13.8	39.3	18.7
2499-5338	10	16.8	42.2	19.8
2499-5337	12	19.8	45	21
2499-5152	14	22.8	48.7	22.7
2499-5151	16	24.5	49	23.9



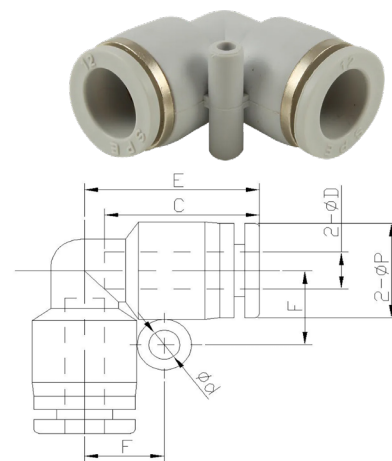
Unequal Straights

Product Code	Ø D1	Ø D2	Ø P1	Ø P2	B	C1	C2
2499-5336	6	4	12.8	10	33.1	16	15
2499-5539	8	4	13.8	10	36.5	18.5	15.5
2499-5335	8	6	13.8	12.8	37	18.5	16
2499-5334	10	8	16.8	13.8	41	19.3	18.5
2499-5538	12	6	20.3	12.8	45.3	24	15.7
2499-5537	12	8	19.8	13.8	44.3	21	19
2499-5333	12	10	19.8	16.8	44.2	21	19.3
2499-5536	16	12	24.5	19.8	48.1	23.7	21



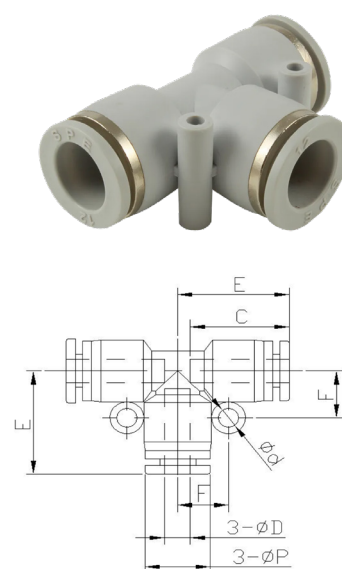
Equal Elbows

Product Code	Ø D	Ø P	C	E	F	Ø d
2499-5332	4	10	15.5	17.5	8	3.2
2499-5331	6	12.8	16.6	20.5	9.5	3.2
2499-5330	8	13.8	18	24	10.2	3.2
2499-5329	10	16.8	19.6	26.3	12	3.2
2499-5328	12	19.8	20.8	27.3	12	3.2
2499-5150	14	22.8	22.5	29.8	15.2	4
2499-5149	16	24.5	22.6	31.2	15.8	3.2



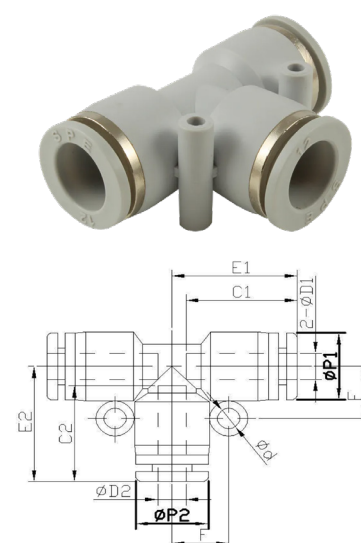
Equal Tees

Product Code	Ø D	Ø P	C	E	F	Ø d
2499-5327	4	10	15	17.3	8	3.4
2499-5326	6	12.8	16.5	19.8	8.4	3.2
2499-5325	8	13.8	19	23.2	10.2	3.4
2499-5324	10	16.8	19.3	26.1	12.1	4
2499-5323	12	19.8	20.6	26.9	13	3.2
2499-5148	14	22.8	22.5	30.6	15.2	4
2499-5147	16	24.5	24	32.2	15.8	3.6



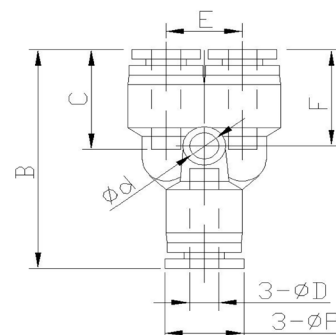
Reducing on the Branch Tees

Product Code	Ø D1	Ø D2	Ø P1	Ø P2	C1	C2	E1	E2	F	Ø d
2499-5535	6	4	12.8	10	16	16.3	19.8	19.3	8.4	3.2
2499-5534	8	6	13.8	12.8	19	17.2	23.2	22.5	10.2	3.4
2499-5533	10	8	16.8	13.8	19.5	18	26.1	26.2	12.1	4
2499-5532	12	10	19.8	16.8	20.6	20	26.9	26.7	13	3.2



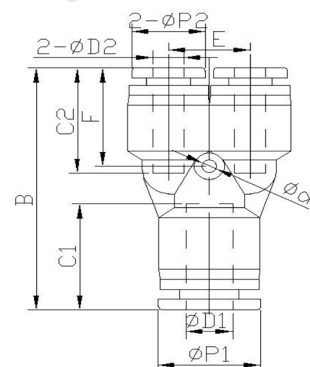
Equal Y's

Product Code	Ø D	Ø P	B	C	E	F	Ø d
2499-5322	4	10	33.6	15.5	10.5	14	3.2
2499-5321	6	12.8	36.7	16	12.7	15	3.2
2499-5320	8	13.8	39.1	18	14	16	3.2
2499-5319	10	16.8	48.7	20.2	17.8	20.4	4
2499-5318	12	19.8	51.8	22	20.6	21.1	4
2499-5146	14	22.8	53.4	22.2	23.3	21.8	4
2499-5145	16	24.5	56.6	23.2	24.3	21.7	4



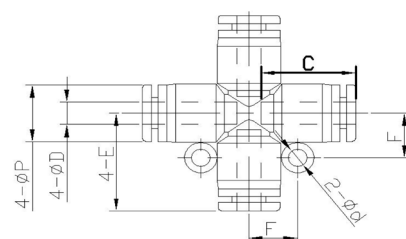
Unequal Ys

Product Code	Ø D1	Ø D2	Ø P1	Ø P2	B	C1	C2	E	F	Ø d
2499-5317	6	4	12.8	10	34.9	15.6	15.5	10.5	13.8	2
2499-5316	8	6	13.8	12.8	42.5	18	15.6	12.5	17.1	2.8
2499-5315	10	8	16.8	13.8	44.8	19.3	18	14.3	20.5	4
2499-5314	12	10	19.8	19.8	51.7	21	19.3	17.8	21	4



Equal Crosses

Product Code	Ø D	Ø P	C	E	F	Ø d
2499-5313	4	10	15.5	17.5	7	2.2
2499-5312	6	12.8	15.6	20	9.5	3.2
2499-5311	8	13.8	19	23.3	10.2	3.2
2499-5310	10	16.8	19	26.3	12	3.2
2499-5309	10	19.8	20.3	28.8	13.8	3.2



Equal Bulkheads

Product Code	Ø D	Ø P	B	C	H	M
2499-5308	4	10	33.5	15	14	12 x 1
2499-5307	6	12.8	34.5	15.6	17	14 x 1
2499-5306	8	13.8	38.5	17.5	19	16 x 1
2499-5305	10	16.8	40.3	18.5	24	20 x 1
2499-5304	12	19.8	43.2	19.5	26	22 x 1

