

CONSTRUCTION

- Body, locking teeth and release collar are incorporated into the one piece construction
- Straights and shapes are manufactured from CA360, CA345 or CA377 brass
- Bottom "O" Ring is made from Buna N

ADVANTAGES

- No special tube preparation necessary
- No special tools needed for assembly
- Can be assembled and disassembled repeatedly
- Automatic locking and sealing up to maximum working Pressure of tubing
- Elbow and tees available with 360° swivel
- Release collar allows instant removal of tubing

APPLICATIONS

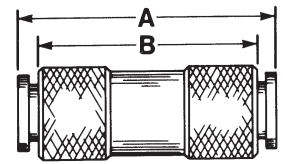
- Compatible with high quality thermoplastic and nylon tubing
- For use in instrumentation, automation and signal circuits
- Pressures and temperatures are governed by the parameters of the tubing involved.
- Excellent vibration characteristics

NOTES

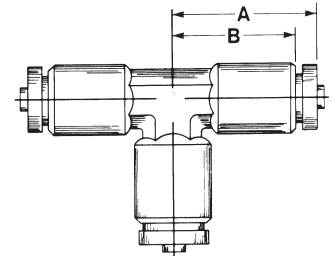
- Current price list represents in stock cataloged items.
- Non-stock items and special parts are available on a quotation basis.
- Configurations and dimensions are subject to change without notice.

262PP STRAIGHT UNION, TUBE TO TUBE

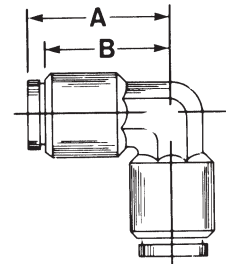
PART NUMBER	O.D. TUBE	A	B
262PP-2	1/8	1.31	1.06
262PP-2.5	5/32	1.31	1.06
262PP-4	1/4	1.65	1.37
262PP-5	5/16	1.76	.56
262PP-6	3/8	1.65	1.38
262PP-8	1/2	1.85	1.58

**264PP UNION TEE, TUBE TO TUBE TO TUBE**

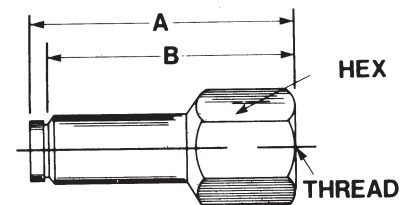
PART NUMBER	O.D. TUBE	A	B
264PP-2	1/8	.77	.65
264PP-2.5	5/32	.79	.66
264PP-4	1/4	1.02	.88
264PP-5	5/16	1.07	1.07
264PP-6	3/8	1.08	.94
264PP-8	1/2	1.16	1.02

**265PP UNION ELBOW, TUBE TO TUBE**

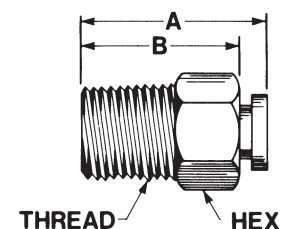
PART NUMBER	O.D. TUBE	A	B
265PP-2.5	5/32	.79	.65
265PP-4	1/4	1.02	.89
265PP-5	5/16	1.03	1.03
265PP-6	3/8	1.10	.96
265PP-8	1/2	1.16	1.02

**266PP FEMALE ADAPTER, TUBE TO FPT**

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	HEX
266PP-2A	1/8	1/8	1.07	.95	9/16
266PP-2.5A	5/32	1/8	1.07	.95	9/16
266PP-4A	1/4	1/8	1.26	1.12	9/16
266PP-4B	1/4	1/4	1.45	1.31	3/4
266PP-6B	3/8	1/4	1.45	1.31	3/4
266PP-6C	3/8	3/8	1.45	1.31	7/8

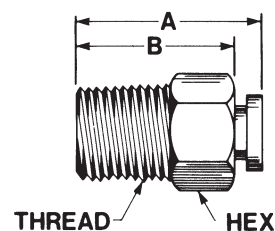
**268PP MALE CONNECTOR, TUBE TO MPT**

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	HEX
268PP-2X	1/8	1/16	.80	.72	3/8
268PP-2A	1/8	1/8	.73	.61	3/8
268PP-2.5A	5/32	1/8	.79	.66	7/16
268PP-2.5B	5/32	1/4	.97	.84	9/16
268PP-4X	1/4	1/16	1.32	.36	1/2
268PP-4A	1/4	1/8	1.06	.92	7/16
268PP-4B	1/4	1/4	1.06	.92	9/16

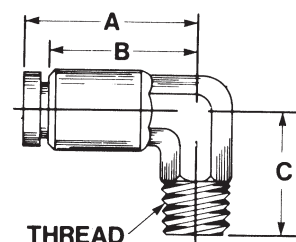


268PP MALE CONNECTOR, TUBE TO MPT *CONTINUED*

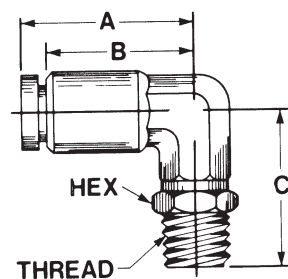
PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	HEX
268PP-4C	1/4	3/8	1.06	.92	11/16
268PP-5A	5/16	1/8	1.36	.36	9/16
268PP-5B	5/16	1/4	1.25	.50	9/16
268PP-6A	3/8	1/8	1.22	1.08	9/16
268PP-6B	3/8	1/4	1.20	1.06	9/16
268PP-6C	3/8	3/8	1.08	.94	11/16
268PP-6D	3/8	1/2	1.06	.92	7/8
268PP-8C	1/2	3/8	1.31	1.18	11/16
268PP-8D	1/2	1/2	1.16	1.02	7/8

**269PP** MALE ELBOW, TUBE TO MPT

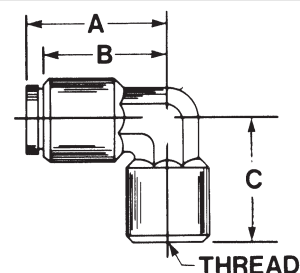
PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C
269PP-2X	1/8	1/16	.92	.36	.78
269PP-2A	1/8	1/8	.77	.65	.68
269PP-2.5A	5/32	1/8	.79	.66	.68
269PP-2.5B	5/32	1/4	.92	.50	.87
269PP-4A	1/4	1/8	1.02	.88	.69
269PP-4B	1/4	1/4	1.02	.88	.94
269PP-5A	5/16	1/8	1.03	.36	.90
269PP-5B	5/16	1/4	1.03	.50	.96
269PP-6B	3/8	1/4	1.08	.94	.94
269PP-6C	3/8	3/8	1.10	.96	.98
269PP-8C	1/2	3/8	1.16	1.02	1.04
269PP-8D	1/2	1/2	1.16	1.02	1.29

**269PPS** 360° SWIVEL ELBOW, TUBE TO MPT

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C
269PPS-2A	1/8	1/8	.77	.65	1.05
269PPS-2.5A	5/32	1/8	.79	.66	.87
269PPS-4A	1/4	1/8	1.02	.88	1.13
269PPS-4B	1/4	1/4	1.02	.88	1.32
269PPS-4C	1/4	3/8	1.02	.88	1.32
269PPS-6B	3/8	1/4	1.08	.94	1.44
269PPS-6C	3/8	3/8	1.08	.94	1.46
269PPS-8C	1/2	3/8	1.18	1.04	1.68
269PPS-8D	1/2	1/2	1.18	1.04	1.19

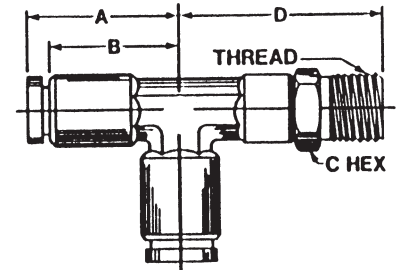
**270PP** FEMALE ELBOW, TUBE TO FPT

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C
270PP-2.5A	5/32	1/8	.93	.75	.600
270PP-4A	1/4	1/8	1.04	.90	.748
270PP-6B	3/8	1/4	1.12	.98	.945

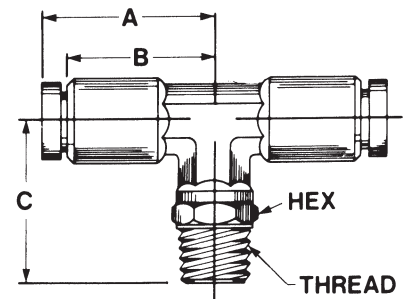


271PPS MALE SWIVEL RUN TEE, TUBE TO MPT TO TUBE

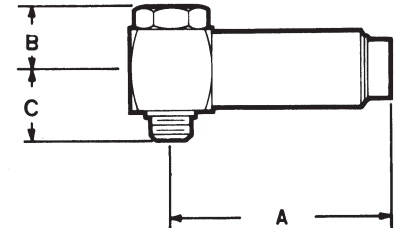
PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	D
271PPS-2.5A	5/32	1/8	.77	.65	1.15
271PPS-4A	1/4	1/8	1.04	.90	1.13
271PPS-4B	1/4	1/4	1.04	.90	1.32
271PPS-5A	5/16	1/8	1.03	.33	1.05
271PPS-6B	3/8	1/4	1.08	.94	1.46
271PPS-6C	3/8	3/8	1.08	.94	1.46
271PPS-8C	1/2	3/8	1.18	1.04	1.68
271PPS-8D	1/2	1/2	1.18	1.04	1.91

**272PPS MALE SWIVEL BRANCH TEE, TUBE TO TUBE TO MPT**

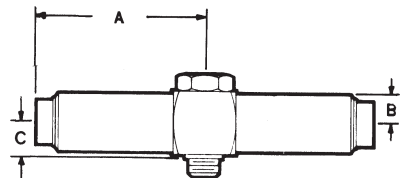
PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C
272PPS-2.5A	5/32	1/8	.79	.66	1.15
272PPS-4A	1/4	1/8	1.04	.90	1.13
272PPS-4B	1/4	1/4	1.04	.90	1.32
272PPS-5A	5/16	1/8	1.03	.36	1.05
272PPS-6B	3/8	1/4	1.10	.96	1.44
272PPS-8C	1/2	3/8	1.18	1.04	1.68
272PPS-8D	1/2	1/2	1.18	1.04	1.91

**280PP BANJO ELBOW WITH UNF THREAD**

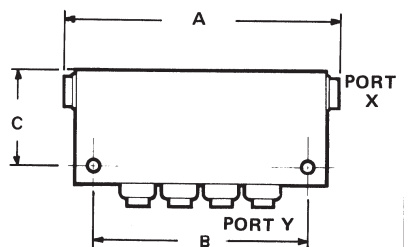
PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C
280PP-2X1032	1/8	10-32	.98	.28	.24
280PP-2.5X10	5/32	10-32	.58	.28	.24

**281PP BANJO TEE WITH UNF THREAD**

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C
281PP-2X1032	1/8	10-32	.98	.28	.24
281PP-2.5X10	5/32	10-32	.98	.28	.24

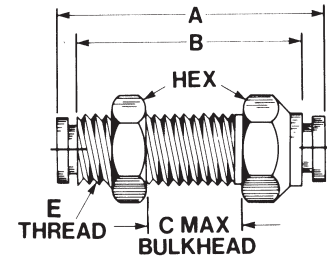
**282PP MANIFOLD**

PART NUMBER	PORT X	PORT Y	A	B	C
282PP-44	1/4	1/4	3.77	2.85	3/4
282PP-42.5	1/4	5/32	3.77	2.85	3/4
282PP-64	3/8	1/4	4.48	3.35	1

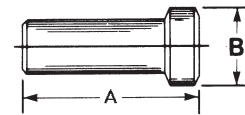


283PP BULKHEAD UNION

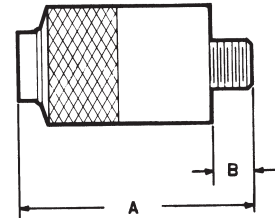
PART NUMBER	O.D. TUBE	A	B	C	HEX
283PP-2	1/8	1.39	1.14	.50	5/8
283PP-2.5	5/32	1.37	1.12	.50	5/8
283PP-4	1/4	1.96	1.69	.88	11/16
283PP-5	5/16	.78	1.78	.88	7/8
283PP-6	3/8	1.96	1.69	.88	13/16
283PP-8	1/2	2.02	1.75	.75	15/16

**284PP PLUG**

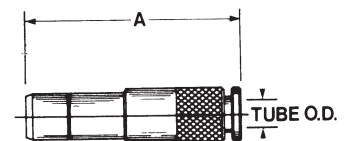
PART NUMBER	O.D. TUBE	A	B
284PP-2	1/8	1.12	.354
284PP-2.5	5/32	1.16	.315
284PP-4	1/4	1.39	.433
284PP-5	5/16	1.55	.435
284PP-6	3/8	1.39	.551
284PP-8	1/2	1.49	.689

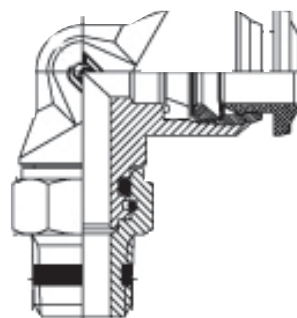
**285PP KNURLED MALE CONNECTOR**

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B
285PP-2X1032	1/8	10-32	.99	.15
285PP-2.5X10	5/32	10-32	.99	.15
285PP-4X1032	1/4	10-32	1.25	.15

**285PP UNION REDUCER, TUBE TO TUBE**

PART NUMBER	O.D. TUBE	A
286PP-42	1/4X1/8	1.96
286PP-62	3/8X1/8	2.13
286PP-42.5	1/4X5/32	1.96
286PP-52.5	5/16X5/32	1.96
286PP-62.5	3/8X5/32	2.13
286PP-54	5/16X1/4	1.96
286PP-64	3/8X1/4	2.13
286PP-65	3/8X5/16	2.13
286PP-84	1/2X1/4	2.25
286PP-86	1/2X3/8	2.45





CONSTRUCTION

- Body, locking mechanism and release ring are incorporated into one piece construction
- Straight and shape bodies manufactured from CA360, CA345 or CA377 brass bright nickel plate
- Thrust ring or button is plastic, sleeve brass nickel plated, gripper collet stainless steel, safety ring PA66, lip seal and thread seal NBR70
- Stainless steel collet design ensures excellent clamping capabilities with nylon, polyethelene and polyurethane tubing.

ADVANTAGES

- Straights manufactured with an internal hex allowing for ease of installation in restricted spaces.
- No special tube preparation necessary.
- Automatic locking and sealing up to maximum working pressure of tubing.
- Can be assembled and disassembled repeatedly.
- Elbows and tees available with 360° swivel
- Offers superior vibration and high impact characteristics

APPLICATIONS

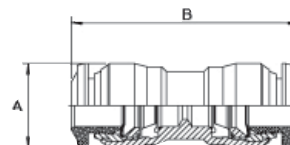
- Compatible with polyethelene, polyurethane and nylon tubing
(Best results use 95 Durometer tubing)
- Used in both pressure and vacuum applications
- Pressures and temperatures are governed by the parameters of the tubing used, limited to 0-250 psi, vacuum and 0°-160°F

NOTES

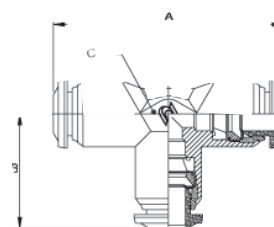
- Current price list represents in stock cataloged items.
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- Configurations and dimensions are subject to change without notice.

262PPNI STRAIGHT UNION NICKEL PLATED

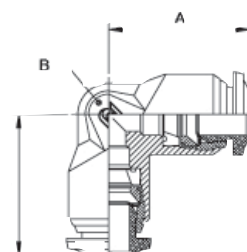
PART NUMBER	O.D. TUBE	A	B
262PPNI-2	1/8	.335	1.063
262PPNI-2.5	5/32	.406	1.201
262PPNI-4	1/4	.492	1.378
262PPNI-5	5/16	.571	1.417
262PPNI-6	3/8	.689	1.693
262PPNI-8	1/2	.807	1.929

**264PPNI UNION TEE NICKEL PLATED**

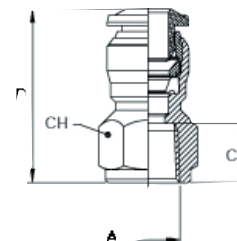
PART NUMBER	O.D. TUBE	A	B	C
264PPNI-2	1/8	1.339	.669	.354
264PPNI-2.5	5/32	1.339	.669	.354
264PPNI-4	1/4	1.654	.827	.433
264PPNI-5	5/16	1.772	.886	.512
264PPNI-6	3/8	2.087	1.043	.630
264PPNI-8	1/2	2.402	1.201	.748

**265PPNI UNION ELBOW NICKEL PLATED**

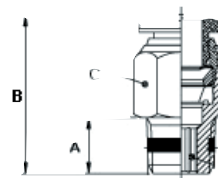
PART NUMBER	O.D. TUBE	A	B
265PPNI-2	1/8	.669	.354
265PPNI-2.5	5/32	.669	.354
265PPNI-4	1/4	.827	.433
265PPNI-5	5/16	.886	.512
265PPNI-6	3/8	1.043	.630
265PPNI-8	1/2	1.201	.748

**266PPNI FEMALE ADAPTER NICKEL PLATED**

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C
266PPNI-2A	1/8	1/8	.354	.925	.512
266PPNI-2B	1/8	1/4	.512	1.142	.630
266PPNI-2.5A	5/32	1/8	.354	.965	.512
266PPNI-2.5B	5/32	1/4	.512	1.181	.630
266PPNI-4A	1/4	1/8	.354	1.063	.512
266PPNI-4B	1/4	1/4	.512	1.26	.630
266PPNI-6B	3/8	1/4	.512	1.378	.709
266PPNI-6C	3/8	3/8	.512	1.378	.787

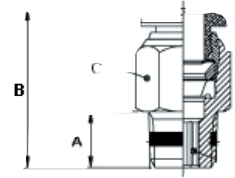
**268PPNI MALE CONNECTOR NICKEL PLATED**

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C
268PPNI-2A	1/8	1/8	.335	.768	.433
268PPNI-2B	1/8	1/4	.512	.965	.551
268PPNI-2.5A	5/32	1/8	.335	.826	.433
268PPNI-2.5B	5/32	1/4	.512	.984	.551

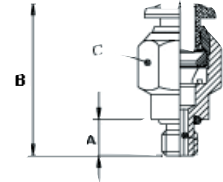


268PPNI MALE CONNECTOR NICKEL PLATED *CONTINUED*

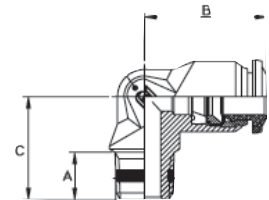
PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C
268PPNI-4A	1/4	1/8	.335	.984	.512
268PPNI-4B	1/4	1/4	.512	.984	.551
268PPNI-4C	1/4	3/8	.512	.984	.709
268PPNI-5A	5/16	1/8	.335	.984	.551
268PPNI-5B	5/16	1/4	.512	1.082	.551
268PPNI-5C	5/16	3/8	.512	1.082	.709
268PPNI-6A	3/8	1/8	.335	1.378	.669
268PPNI-6B	3/8	1/4	.512	1.319	.669
268PPNI-6C	3/8	3/8	.512	1.319	.709
268PPNI-6D	3/8	1/2	.669	1.319	.866
268PPNI-8B	1/2	1/4	.512	1.535	.787
268PPNI-8C	1/2	3/8	.512	1.417	.787
268PPNI-8D	1/2	1/2	.669	1.575	.866

**268PPNI MALE CONNECTOR NICKEL PLATED**

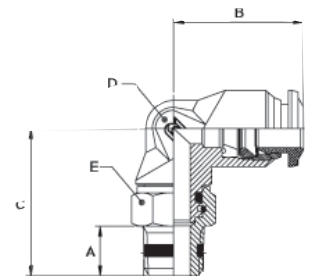
PART NUMBER	O.D. TUBE	UNF	A	B	C
268PPNI-2x1032	1/8	10/32	.197	.748	.315
268PPNI-2.5x1032	5/32	10/32	.197	.827	.394
268PPNI-4x1032	1/4	10/32	.197	.966	.512

**269PPNI MALE ELBOW NICKEL PLATED**

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C
269PPNI-4A	1/4	1/8	.335	.827	.728
269PPNI-4B	1/4	1/4	.512	.827	.905
269PPNI-6B	3/8	1/4	.512	1.043	1.043
269PPNI-6C	3/8	3/8	.512	1.043	1.004

**269PPSNI MALE SWIVEL ELBOW NICKEL PLATED**

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C	D	E
269PPSNI-2A	1/8	1/8	.335	.669	.906	.354	.512
269PPSNI-2B	1/8	1/4	.512	.669	1.181	.354	.591
269PPSNI-2.5A	5/32	1/8	.335	.669	.906	.354	.512
269PPSNI-2.5B	5/32	1/4	.512	.669	1.181	.354	.591
269PPSNI-4A	1/4	1/8	.335	.827	.984	.433	.512
269PPSNI-4B	1/4	1/4	.512	.827	1.22	.433	.591
269PPSNI-4C	1/4	3/8	.512	.827	1.28	.433	.709
269PPSNI-5A	5/16	1/8	.335	.886	1.043	.512	.512
269PPSNI-5B	5/16	1/4	.512	.886	1.26	.512	.591
269PPSNI-5C	5/16	3/8	.512	.886	1.28	.512	.709
269PPSNI-6A	3/8	1/8	.335	1.043	1.142	.630	.512
269PPSNI-6B	3/8	1/4	.512	1.043	1.339	.630	.591
269PPSNI-6C	3/8	3/8	.512	1.043	1.358	.630	.709
269PPSNI-6D	3/8	1/2	.669	1.043	1.614	.630	.866

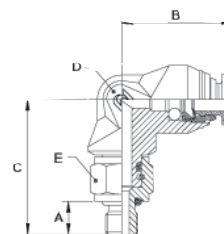


269PPSNI MALE SWIVEL ELBOW NICKEL PLATED *CONTINUED*

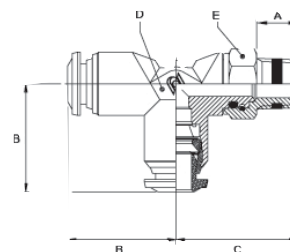
PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C	D	E
269PPSNI-8B	1/2	1/4	.512	1.201	1.476	.748	.591
269PPSNI-8C	1/2	3/8	.512	1.201	1.476	.748	.709
269PPSNI-8D	1/2	1/2	.669	1.201	1.732	.748	.866

269PPSNI MALE SWIVEL ELBOW NICKEL PLATED

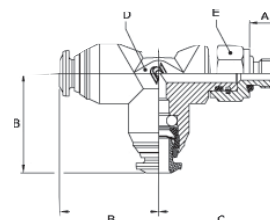
PART NUMBER	O.D. TUBE	UNF	A	B	C	D	E
269PPSNI-2X1032	1/8	10/32	.197	.669	.787	.354	.315
269PPSNI-2.5X1032	5/32	10/32	.197	.669	.787	.354	.315
269PPSNI-4X1032	1/4	10/32	.197	.827	.866	.433	.315

**271PPSNI MALE SWIVEL RUN TEE NICKEL PLATED**

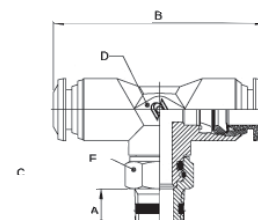
PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C	D	E
271PPSNI-2A	1/8	1/8	.335	.669	.906	.354	.512
271PPSNI-2B	1/8	1/4	.335	.669	1.181	.354	.591
271PPSNI-2.5A	5/32	1/8	.335	.669	.906	.354	.512
271PPSNI-4A	1/4	1/8	.335	.827	.984	.433	.512
271PPSNI-4B	1/4	1/4	.512	.827	1.22	.433	.591
271PPSNI-6B	3/8	1/4	.512	1.043	1.339	.630	.591
271PPSNI-6C	3/8	3/8	.512	1.043	1.358	.630	.709
271PPSNI-6D	3/8	1/2	.669	1.043	1.614	.630	.866
271PPSNI-8B	1/2	1/4	.512	1.201	1.476	.748	.591
271PPSNI-8C	1/2	3/8	.512	1.201	1.476	.748	.709
271PPSNI-8D	1/2	1/2	.669	1.201	1.732	.748	.866

**271PPSNI MALE SWIVEL RUN TEE NICKEL PLATED**

PART NUMBER	O.D. TUBE	UNF	A	B	C	D	E
271PPSNI-2X1032	1/8	10/32	.197	.669	.787	.354	.315
271PPSNI-2.5X1032	5/32	10/32	.197	.669	.787	.354	.315

**272PPSNI MALE SWIVEL BRANCH TEE NICKEL PLATED**

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C	D	E
272PPSNI-2A	1/8	1/8	.295	1.339	.906	.354	.512
272PPSNI-2B	1/8	1/4	.512	1.339	1.181	.354	.591
272PPSNI-2.5A	5/32	1/8	.295	1.339	.906	.354	.512
272PPSNI-2.5B	5/32	1/4	.512	1.339	1.181	.354	.591
272PPSNI-4A	1/4	1/8	.295	1.654	.984	.433	.512

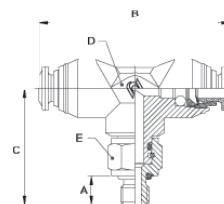


272PPSNI MALE SWIVEL BRANCH TEE NICKEL PLATED CONTINUED

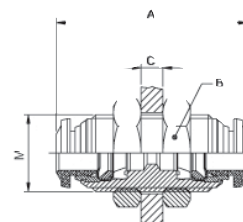
PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C	D	E
272PPSNI-4B	1/4	1/4	.512	1.654	1.22	.433	.591
272PPSNI-6B	3/8	1/4	.512	2.087	1.339	.630	.591
272PPSNI-6C	3/8	3/8	.512	2.087	1.358	.630	.709
272PPSNI-6D	3/8	1/2	.669	2.087	1.614	.630	.866
272PPSNI-8B	1/2	1/4	.512	2.402	1.476	.748	.591
272PPSNI-8C	1/2	3/8	.512	2.402	1.476	.748	.709
272PPSNI-8D	1/2	1/2	.669	2.402	1.732	.748	.866

272PPSNI MALE SWIVEL BRANCH TEE NICKEL PLATED

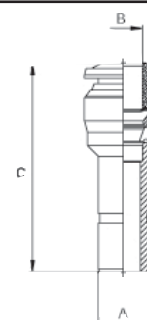
PART NUMBER	O.D. TUBE	UNF	A	B	C	D	E
272PPSNI-2X1032	1/8	10/32	.197	1.339	.787	.354	.315
272PPSNI-2.5X1032	5/32	10/32	.197	1.339	.787	.354	.315

**283PPNI BULKHEAD CONNECTOR NICKEL PLATED**

PART NUMBER	O.D. TUBE	A	B	C
283PPNI-2	1/8	1.063	.551	.197
283PPNI-2.5	5/32	1.240	.669	.276
283PPNI-4	1/4	1.378	.669	.374
283PPNI-5	5/16	1.457	.748	.413
283PPNI-6	3/8	1.693	.945	.492
283PPNI-8	1/2	1.890	1.024	.650

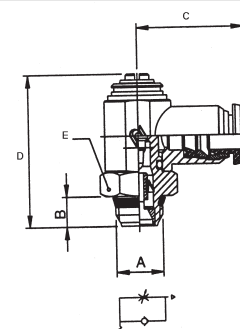
**286PPNI UNION REDUCER NICKEL PLATED**

PART NUMBER	(A) O.D. TUBE	(B) O.D. TUBE	C
286PPNI-42	1/4	1/8	1.142
286PPNI-4-2.5	1/4	5/32	1.181
286PPNI-64	3/8	1/4	1.496
286PPNI-84	1/2	1/4	1.693
286PPNI-86	1/2	3/8	1.693

**953PPNI FLOW CONTROL VALVE NICKEL PLATED**

PART NUMBER	O.D. TUBE	A	B	C	D	E
953PPNI-2A	1/8	1/8	.217	.827	1.181	.551
953PPNI-4A	1/4	1/8	.217	.866	1.181	.551
953PPNI-4B	1/4	1/4	.276	.984	1.417	.669

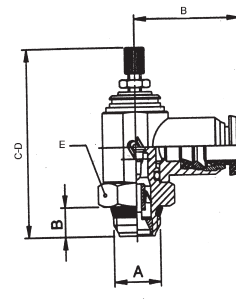
- Flow control with push in banjo body, controlled flow out brass nickel plated body, for filtered air to 145 psi



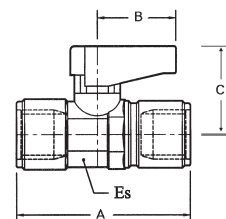
958PPNI FLOW CONTROL VALVE NICKEL PLATED

PART NUMBER	O.D. TUBE	(A) PIPE	B	C-MIN.	D-MAX.	E
958PPNI-2A	1/8	1/8	.217	1.614	1.83	.551
958PPNI-4A	1/4	1/8	.217	1.614	1.83	.551
958PPNI-4B	1/4	1/4	.276	1.85	2.086	.669

- Flow control with poly push banjo body & knob, controlled flow out brass nickel plated body, for filtered air to 145 psi

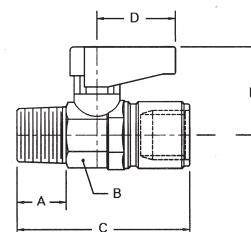
**300PPNI MINI BALL VALVE, FEMALE NPTF, CHROME PLATED**

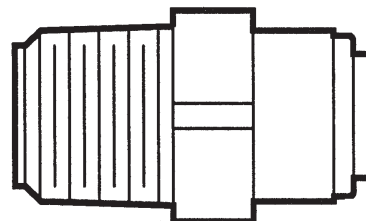
PART NUMBER	PIPE THREAD	PIPE THREAD ORIFICE	A	B	C
300PPNI-2A	1/8	1/8	.217	1.476	.748
300PPNI-4B	1/4	1/4	.217	1.811	.748
300PPNI-6C	3/8	3/8	.315	1.909	.748
300PPNI-8D	1/2	1/2	.394	2.441	1.201

**310PPNI MINI BALL VALVE, MALE NPTF TO FEMALE NPTF, CHROME PLATED**

PART NUMBER	PIPE THREAD	PIPE THREAD ORIFICE	A	B	C	D	E
310PPNI-2A	1/8	1/8	.217	.551	.335	1.457	.827
310PPNI-4B	1/4	1/4	.217	.551	.512	1.811	.827
310PPNI-6C	3/8	3/8	.315	.709	.512	1.87	.866
310PPNI-8D	1/2	1/2	.394	.866	.669	2.362	1.024

- *Mini ball valve used with air, oil, water and gas to 250 psi, chrome plated brass, teflon ball seat, chrome plated brass ball





CONSTRUCTION

- Fitting is of three piece construction, body, collet and o-ring preassembled
- Material acetal copolymer or polypropylene
- O-ring manufactured from nitrile rubber or EPDM
- Collets are produced with stainless steel locking teeth

Maximum Pressures & Temperatures

standards	5/32"	3/16"	1/4"	5/16"	3/8"	1/2"
Items	4mm	5mm	6mm	8mm	10mm	12mm
Water Pressure(psi)	230				170	
Temperatures	-20°F(-29°C)~+185°F(85°C)					

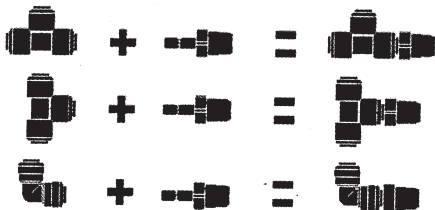
Maximum Torque

Threads	1/8", 1/4"	3/8", 1/2"
Maximum Torque	1.5N • M 15kgf • cm	3.0 N • M 30kgf • cm

ADVANTAGES

- FDA Compliant and NSF 51 listed non toxic material
- Wide variety of sizes to meet a broad range of applications
- Easy to install – no tools required
- Easy to disconnect and reuse
- Elbows and tees available with 360 degree swivel
- color coded clips allow color coding independent runs or lines

Chart on Adaptability



- Examine the possible combinations for new design
- Unlike some products disassembly and reuse is readily accomplished

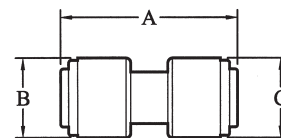
APPLICATIONS

- Water conditioning, filtration, reverse osmosis, soft drink, beer and condiment dispensing equipment where metal contamination can be present.
- Industrial applications include low pressure pneumatic, hydraulic and vacuum lines commonly used in packaging systems, robotics, machine tools, agricultural spraying, car and industrial wash systems and air logic systems.

462 STRAIGHT UNION

ACETAL POLYPROPYLENE

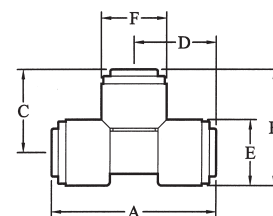
PART NUMBER	PART NUMBER	O.D. TUBE	A	B	C
462ACT-2.5		5/32	1.352	.512	.512
462ACT-3		3/16	1.352	.512	.512
462ACT-4	462PRY-4	1/4	1.406	.591	.591
462ACT-45		1/4 X 5/16	1.617	.697	.697
462ACT-5		5/16	1.620	.697	.697
462ACT-53		5/16 X 3/16	1.648	.697	.512
462ACT-6	462PRY-6	3/8	1.647	.783	.783
462ACT-63		3/8 X 3/16	1.661	.783	.512
462ACT-64		3/8 X 1/4	1.624	.783	.783
462ACT-65		3/8 X 5/16	1.627	.783	.783
462ACT-8	462PRY-8	1/2	1.973	.906	.906
462ACT-85		1/2 X 5/16	1.926	.906	.906
462ACT-86		1/2 X 3/8	1.947	.906	.906



464 UNION TEE

ACETAL POLYPROPYLENE

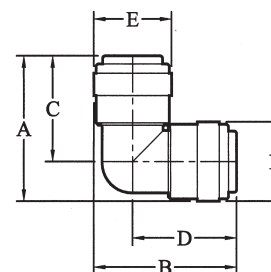
PART NUMBER	PART NUMBER	O.D. TUBE	RUN	A	B	C	D	E	F
464ACT-2.5		5/32	5/32	1.366	.939	.683	.683	.512	.512
464ACT-3		3/16	3/16	1.366	.939	.683	.683	.512	.512
464ACT-4	464PRY-4	1/4	1/4	1.551	1.075	.785	.776	.594	.594
464ACT-5		5/16	5/16	1.636	1.169	.82	.817	.697	.697
464ACT-6	464PRY-6	3/8	3/8	1.972	1.374	.986	.986	.776	.776
464ACT-664		3/8	1/4	1.972	1.350	.951	.986	.776	.594
464ACT-8	464PRY-8	1/2	1/2	2.355	1.636	1.183	1.177	.906	.906
464ACT-886		1/2	3/8	2.355	1.602	1.15	1.177	.906	.776



465 UNION ELBOW

ACETAL POLYPROPYLENE

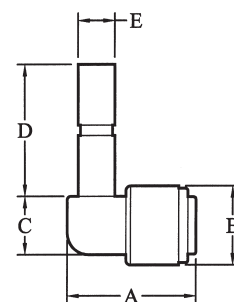
PART NUMBER	PART NUMBER	O.D. TUBE	A	B	C	D	E	F
465ACT-2.5		5/32	1.908	1.908	1.388	1.388	1.040	1.040
465ACT-3		3/16	1.908	1.908	1.388	1.388	1.040	1.040
465ACT-4	465PRY-4	1/4	2.182	2.182	1.502	1.502	1.20	1.20
465ACT-5		5/16	2.392	2.392	1.684	1.684	1.416	1.416
465ACT-52.5		5/16 X 5/32	2.204	2.411	1.684	1.699	1.424	1.034
465ACT-53		5/16 X 3/16	2.204	2.411	1.684	1.699	1.424	1.040
465ACT-54		5/16 X 1/4	2.392	2.38	1.684	1.672	1.416	1.416
465ACT-6	465PRY-6	3/8	2.811	2.811	2.027	2.027	1.568	1.568
465ACT-63		3/8 X 3/16	2.294	2.524	1.774	1.728	1.592	1.038
465ACT-64		3/8 X 1/4	2.485	2.686	1.885	1.86	1.592	1.200
465ACT-65		3/8 X 5/16	2.811	2.775	2.027	1.991	1.568	1.568
465ACT-8	465PRY-8	1/2	3.376	3.308	2.468	2.400	1.816	1.816
465ACT-86		1/2 X 3/8	3.376	3.308	2.468	2.400	1.816	1.816



465 UNION ELBOW STEM

ACETAL POLYPROPYLENE

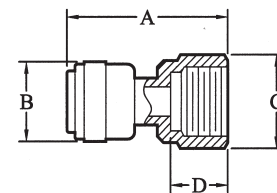
PART NUMBER	PART NUMBER	O.D. TUBE	O.D. STEM	A	B	C	D	E
465ACTS-2.5		5/32	5/32	.886	.512	.413	.618	.157
465ACTS-3		3/16	3/16	.886	.516	.403	.625	.187
465ACTS-4		1/4	1/4	.954	.591	.374	.719	.250
465ACTS-46		1/4	3/8	1.069	.694	.492	.976	.381
465ACTS-5		5/16	5/16	.954	.591	.374	.719	.250
465ACTS-56		5/16	3/8	1.069	.694	.492	.976	.381
465ACTS-6		3/8	3/8	1.300	.783	.584	.901	.375
465ACTS-8		1/2	1/2	1.537	.898	.734	.996	.500



466 FEMALE ADAPTER

ACETAL POLYPROPYLENE

PART NUMBER	PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C	D
466ACT-4A	466PRY-4A	1/4	1/8	1.220	.591	.748	.453
466ACT-4B	466PRY-4B	1/4	1/4	1.220	.591	.748	.453
466ACT-6A	466PRY-6A	3/8	1/8	1.398	.783	.744	.508
466ACT-6B	466PRY-6B	3/8	1/4	1.398	.783	.744	.508



466 FEMALE ADAPTER, UNS THREAD, FAUCET ADAPTER

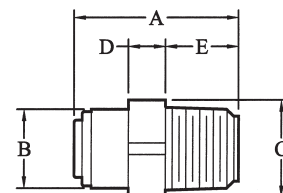
ACETAL

PART NUMBER	O.D. TUBE	UNS THREAD	A	B	C	D
466ACT-46	1/4	7/16-24	1.220	.591	.748	.453
466ACT-66	3/8	7/16-24	1.398	.783	.744	.508

468 MALE CONNECTOR

ACETAL POLYPROPYLENE

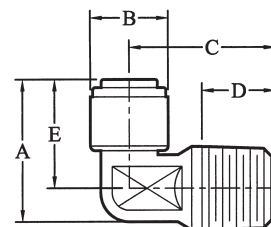
PART NUMBER	PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C	D	E
468ACT-2.5A		5/32	1/8	.917	.512	.545	.232	.323
468ACT-2.5B		5/32	1/4	1.128	.512	.656	.234	.531
468ACT-3A		3/16	1/8	.969	.512	.545	.236	.374
468ACT-4A	468PRY-4A	1/4	1/8	1.027	.591	.661	.231	.406
468ACT-4B	468PRY-4B	1/4	1/4	1.107	.591	.656	.234	.494
468ACT-4C		1/4	3/8	1.006	.591	.787	.236	.474
468ACT-4D		1/4	1/2	1.301	.783	.972	.238	.646
468ACT-5A		5/16	1/8	1.045	.697	.785	.236	.374
468ACT-5B		5/16	1/4	1.039	.697	.785	.233	.489
468ACT-5C		5/16	3/8	1.024	.697	.787	.233	.474
468ACT-6A		3/8	1/8	1.214	.783	.786	.233	.374
468ACT-6B	468PRY-6B	3/8	1/4	1.329	.783	.786	.233	.489
468ACT-6C	468PRY-6C	3/8	3/8	1.137	.783	.969	.233	.467
468ACT-6D		3/8	1/2	1.321	.783	.969	.238	.646
468ACT-8C		1/2	3/8	1.364	.906	.969	.238	.656
468ACT-8D		1/2	1/2	1.354	.906	.969	.238	.646



469 MALE ELBOW

ACETAL POLYPROPYLENE

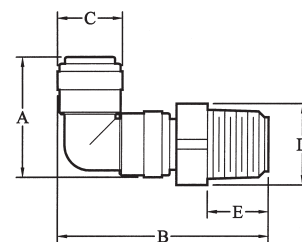
PART NUMBER	PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C	D	E
469ACT-4A	469PRY-4A	1/4	1/8	.9724	.5906	.7874	.3937	.7756
469ACT-4B	469PRY-4B	1/4	1/4	1.0421	.5906	.9370	.4409	.9724
469ACT-4C	469PRY-4C	1/4	3/8	1.1378	.5906	.8661	.4740	.7756
469ACT-6B	469PRY-6B	3/8	1/4	1.2539	.7835	.9429	.4409	.9882
469ACT-6C	469PRY-6C	3/8	3/8	1.3224	.7835	.9413	.4740	.9882



469 360° SWIVEL ELBOW

ACETAL

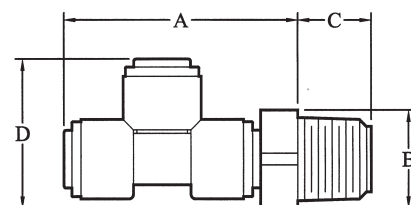
PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C	D	E
469ACTS-2.5A	5/32	1/8	.939	1.205	.512	.550	.385
469ACTS-2.5B	5/32	1/4	.939	1.207	.512	.644	.524
469ACTS-3A	3/16	1/8	.939	1.205	.511	.550	.385
469ACTS-4A	1/4	1/8	1.074	1.350	.591	.550	.385
469ACTS-4B	1/4	1/4	1.074	1.341	.591	.644	.524
469ACTS-5A	5/16	1/8	1.177	1.437	.697	.550	.385
469ACTS-5B	5/16	1/4	1.177	1.439	.697	.644	.524
469ACTS-5C	5/16	3/8	1.177	1.435	.697	.771	.551
469ACTS-6B	3/8	1/4	1.383	1.651	.772	.644	.524
469ACTS-6C	3/8	3/8	1.383	1.647	.772	.771	.551
469ACTS-8C	1/2	3/8	1.661	1.925	.894	.771	.551
469ACTS-8D	1/2	1/2	1.661	1.924	.894	.955	.740



471 MALE SWIVEL RUN TEE

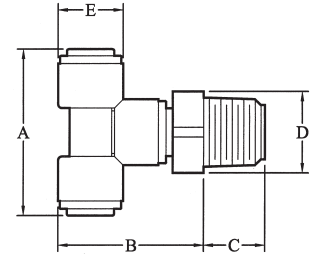
ACETAL

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C	D
471ACTS-2.5A	5/32	1/8	1.632	.958	.385	.550
471ACTS-2.5B	5/32	1/4	1.632	1.006	.524	.644
471ACTS-3A	3/16	1/8	1.632	.957	.385	.547
471ACTS-4A	1/4	1/8	1.817	1.051	.385	.547
471ACTS-4B	1/4	1/4	1.817	1.110	.524	.644
471ACTS-5A	5/16	1/8	1.902	1.094	.385	.547
471ACTS-5B	5/16	1/4	1.902	1.142	.524	.644
471ACTS-5C	5/16	3/8	1.898	1.206	.551	.771
471ACTS-6B	3/8	1/4	2.24	1.309	.524	.644
471ACTS-6C	3/8	3/8	2.235	1.372	.551	.771
471ACTS-8C	1/2	3/8	2.617	1.569	.551	.771
471ACTS-8D	1/2	1/2	2.617	1.661	.740	.955

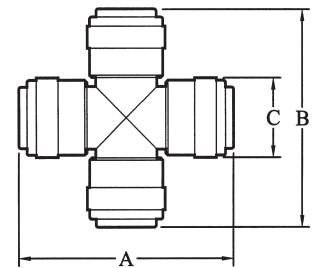


472 MALE SWIVEL BRANCH TEE

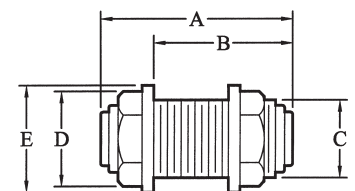
ACETAL PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C	D	E
472ACTS-2.5A	5/32	1/8	1.366	1.205	.385	.550	.512
472ACTS-2.5B	5/32	1/4	1.366	1.207	.524	.644	.512
472ACTS-3A	3/16	1/8	1.366	1.205	.385	.547	.512
472ACTS-4A	1/4	1/8	1.551	1.341	.385	.547	.594
472ACTS-4B	1/4	1/4	1.551	1.341	.524	.644	.594
472ACTS-5A	5/16	1/8	1.636	1.434	.385	.547	.697
472ACTS-5B	5/16	1/4	1.636	1.432	.524	.644	.697
472ACTS-5C	5/16	3/8	1.636	1.431	.551	.771	.697
472ACTS-6B	3/8	1/4	1.972	1.642	.524	.644	.776
472ACTS-6C	3/8	3/8	1.972	1.636	.551	.771	.776
472ACTS-8C	1/2	3/8	2.355	1.898	.551	.771	.906
472ACTS-8D	1/2	1/2	2.355	1.898	.74	.955	.906

**473 CROSS**

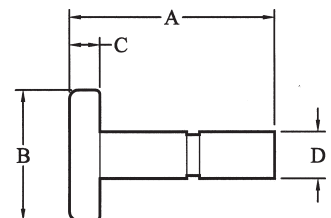
ACETAL PART NUMBER	O.D. TUBE	A	B	C
473ACT-2.5	5/32	1.366	1.366	.512
473ACT-4	1/4	1.643	1.643	.591
473ACT-5	5/16	1.657	1.657	.693
473ACT-6	3/8	1.983	1.983	.783
473ACT-8	1/2	2.313	2.313	.906

**483 BULKHEAD UNION**

ACETAL PART NUMBER	O.D. TUBE	A	B	C	D	E
483ACT-2.5	5/32	1.546	1.160	.63	.791	.886
483ACT-3	3/16	1.546	1.160	.63	.791	.886
483ACT-4	1/4	1.531	1.152	.63	.791	.886
483ACT-5	5/16	1.550	1.129	.787	.957	1.043
483ACT-6	3/8	1.567	1.15	.787	.957	1.043
483ACT-64	3/8 X 1/4	1.567	1.15	.787	.957	1.043
483ACT-8	1/2	1.898	1.376	1.051	1.203	1.484

**484 PLUG**

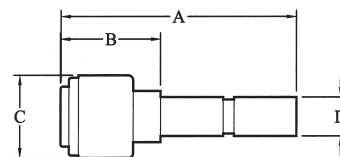
ACETAL PART NUMBER	O.D. STEM	A	B	C	D
484ACT-2.5	5/32	.764	.496	.118	.156
484ACT-3	3/16	.764	.496	.118	.187
484ACT-4	1/4	.866	.587	.157	.250
484ACT-5	5/16	.907	.677	.157	.313
484ACT-6	3/8	1.04	.756	.157	.374
484ACT-8	1/2	1.179	.819	.157	.500



486ACT UNION REDUCER

ACETAL POLYPROPYLENE

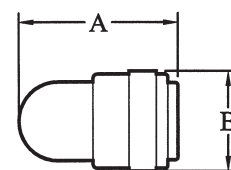
PART NUMBER	PART NUMBER	O.D. STEM	O.D. TUBE	A	B	C	D
486ACT-53		5/16	3/16	1.464	.724	.141	.313
486ACT-54		5/16	1/4	1.464	.709	.141	.313
486ACT-63		3/8	3/16	1.394	.49	.512	.376
486ACT-64	486PRY-64	3/8	1/4	1.565	.732	.591	.374
486ACT-65		3/8	5/16	1.602	.709	.697	.376
486ACT-85		1/2	5/16	1.573	.551	.697	.499
486ACT-86	486PRY-86	1/2	3/8	1.908	.875	.783	.499



487 TUBE END STOP

ACETAL

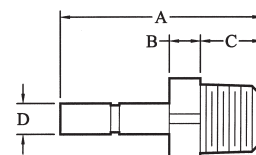
PART NUMBER	O.D. TUBE	A	B
487ACT-4	1/4	.882	.591
487ACT-5	5/16	.907	.697
487ACT-6	3/8	1.043	.783
487ACT-8	1/2	1.274	.906



488 STEM ADAPTER

ACETAL POLYPROPYLENE

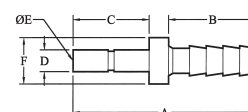
PART NUMBER	PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C	D	E	F
488ACT-2.5A		5/32	1/8	1.29	.266	.385	.157	.089	.550
488ACT-2.5B		5/32	1/4	1.42	.268	.524	.157	.087	.644
488ACT-3A		3/16	1/8	1.299	.266	.385	.189	.108	.547
488ACT-4A	488PRY-4A	1/4	1/8	1.335	.256	.385	.251	.175	.550
488ACT-4B	488PRY-4B	1/4	1/4	1.502	.256	.551	.251	.175	.644
488ACT-5A		5/16	1/8	1.365	.260	.385	.314	.197	.550
488ACT-5B		5/16	1/4	1.547	.260	.551	.314	.197	.649
488ACT-5C		5/16	3/8	1.547	.264	.551	.314	.197	.771
488ACT-6B	488PRY-6B	3/8	1/4	1.678	.260	.551	.381	.256	.650
488ACT-6C	488PRY-6C	3/8	3/8	1.691	.262	.551	.381	.252	.771
488ACT-8C	488PRY-8C	1/2	3/8	1.897	.262	.551	.500	.366	.949
488ACT-8D	488PRY-8D	1/2	1/2	2.00	.262	.740	.500	.360	.947



489 TUBE BARB CONNECTOR

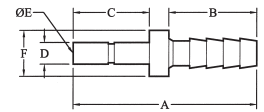
ACETAL

PART NUMBER	O.D. STEM	I.D. TUBE	A	B	C	D	E	F
489ACT-43	1/4	3/16	1.521	.709	.694	.250	.169	.449
489ACT-44	1/4	1/4	1.521	.709	.694	.250	.169	.449
489ACT-45	1/4	5/16	1.521	.709	.694	.250	.169	.449
489ACT-53	5/16	3/16	1.563	.709	.736	.314	.189	.449
489ACT-54	5/16	1/4	1.563	.709	.736	.314	.189	.465
489ACT-55	5/16	5/16	1.563	.709	.736	.314	.189	.488
489ACT-56	5/16	3/8	1.626	.772	.736	.314	.189	.583
489ACT-64	3/8	1/4	1.704	.709	.878	.375	.252	.614
489ACT-65	3/8	5/16	1.704	.709	.878	.375	.252	.614

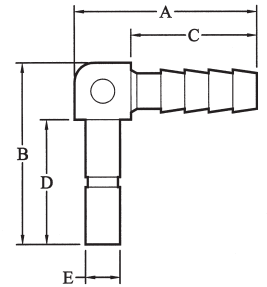


489 TUBE BARB CONNECTOR CONTINUED

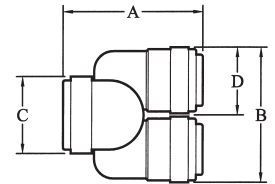
ACETAL PART NUMBER	O.D. STEM	I.D. TUBE	A	B	C	D	E	F
489ACT-66	3/8	3/8	1.767	.772	.878	.375	.252	.583
489ACT-68	3/8	1/2	1.767	.772	.878	.375	.252	.819
489ACT-86	1/2	3/8	1.887	.772	.998	.500	.374	.736
489ACT-88	1/2	1/2	1.887	.772	.998	.500	.374	.819

**490 TUBE ELBOW BARB CONNECTOR**

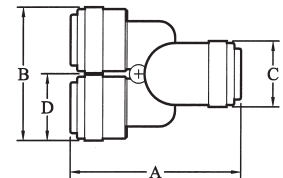
ACETAL PART NUMBER	O.D. STEM	I.D. TUBE	A	B	C	D	E	F
490ACT-44	1/4	1/4	1.110	1.096	.709	.694	.250	.169
490ACT-45	1/4	5/16	1.189	1.175	.709	.694	.250	.169
490ACT-54	5/16	1/4	1.110	1.137	.709	.736	.314	.189
490ACT-55	5/16	5/16	1.189	1.216	.709	.736	.314	.189
490ACT-64	3/8	1/4	1.110	1.279	.709	.878	.375	.252
490ACT-65	3/8	5/16	1.189	1.358	.709	.878	.375	.252

**491 U BEND**

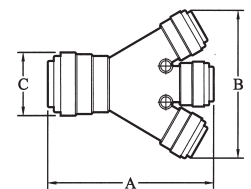
ACETAL PART NUMBER	O.D. TUBE	A	B	C	D
491ACT-4	1/4	1.354	1.181	.669	.591
491ACT-5	5/16	1.436	1.358	.768	.679
491ACT-6	3/8	1.594	1.559	.866	.780
491ACT-8	1/2	1.864	1.795	.984	.898

**492 TWO WAY DIVIDER**

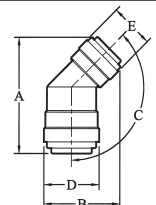
ACETAL PART NUMBER	TUBE IN	TUBE OUT	TUBE OUT	A	B	C
492ACT-2.5	5/32	5/32	5/32	1.36	1.03	.516
492ACT-4	1/4	1/4	1/4	1.554	1.181	.591
492ACT-5	5/16	5/16	5/16	1.711	1.358	.679
492ACT-65	3/8	5/16	5/16	1.803	1.369	.768
492ACT-6	3/8	3/8	3/8	1.902	1.559	.78
492ACT-8	1/2	1/2	1/2	2.26	1.808	.906

**493 THREE WAY DIVIDER**

ACETAL PART NUMBER	O.D. TUBE	A	B	C	D
493ACT-64	3/8 X 1/4	2.299	2.00	.783	.591
493ACT-86	1/2 X 3/8	2.829	2.636	.787	.906

**494 OFFSET CONNECTOR**

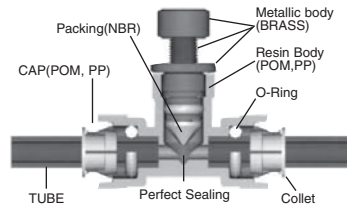
ACETAL PART NUMBER	O.D. TUBE	A	B	C	D	E
494ACT-64	3/8 X 1/4	1.487	1.024	5.315	.783	.591
494ACT-85	1/2 X 5/16	1.726	1.170	5.315	.906	.697



CONTROL VALVES

FEATURES:

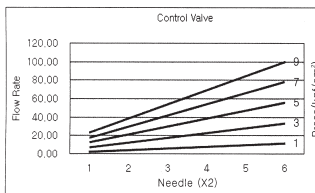
- DURABLE AND RESISTANT TO PRESSURE
- MINUTE REGULATION WITH GRADUAL FLOW CONTROL
- UNIFORM FLOW THROUGH USE OF LOCK NUT
- OPENING AND CLOSING ARE POSSIBLE



NOTE:

- FOR APPLICATIONS OTHER THAN FOOD BEVERAGE AND WATER REFER TO CHEMICAL PROPERTY.
- DO NOT APPLY EXCESSIVE VIBRATION, ROTATION, BODY PULLING OR TWISTING TO THE FITTING AS THE VALVE BODY MAY INCUR DAMAGE OR COLLETS MAY DISLOCATE.

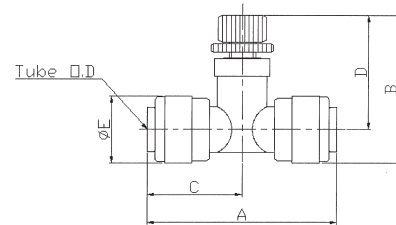
■ Flow Rate Per Rotation



* The above data may be changed depending on the time and temperature variations.

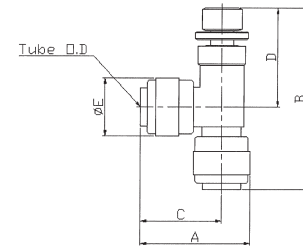
CV462 CONTROL VALVE UNION ELBOW

PART NUMBER	O.D. TUBE	A	B	C	D	E
CV462ACT-4	1/4	1.685	1.300	.843	1.005	.591
CV462ACT-6	3/8	1.989	1.533	.994	1.149	.783



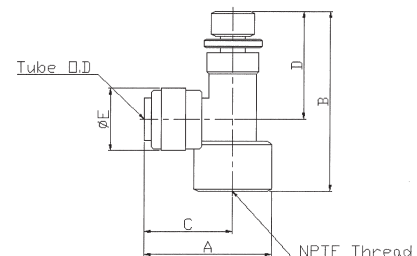
CV465 CONTROL VALVE ELBOW UNION

PART NUMBER	O.D. TUBE	A	B	C	D	E
CV465ACT-4	1/4	1.134	1.864	.839	1.015	.591



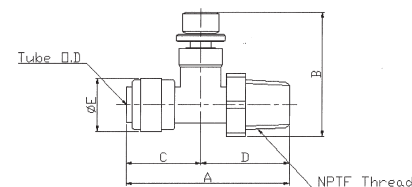
CV466 CONTROL VALVE FEMALE ADAPTER

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C	D	E
CV466ACT-4B	1/4	1/4	1.208	1.689	.839	.955	.591
CV466ACT-6C	3/8	3/8	1.454	2.065	1.047	1.133	.783

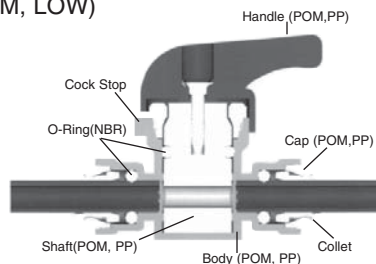


CV468 CONTROL VALVE MALE CONNECTOR

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C	D	E
CV468ACT-4B	1/4	1/4	1.839	1.381	.839	.998	.591
CV468ACT-6C	3/8	3/8	2.163	1.793	1.004	1.159	.783

**HAND VALVES****FEATURES:**

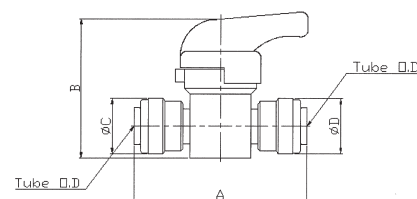
- EASY OPENING AND CLOSING
- PARTIAL FLOW CONTROL (HIGH, MEDIUM, LOW)

**NOTE:**

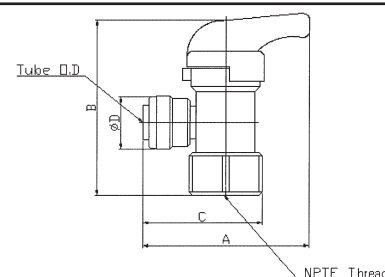
- FOR APPLICATIONS OTHER THAN FOOD BEVERAGE AND WATER REFER TO CHEMICAL PROPERTY.
- DO NOT APPLY EXCESSIVE VIBRATION, ROTATION, BODY PULLING OR TWISTING TO THE FITTING AS THE VALVE BODY MAY INCUR DAMAGE OR COLLETS MAY DISLOCATE.

HV462 HAND VALVE UNION CONNECTOR

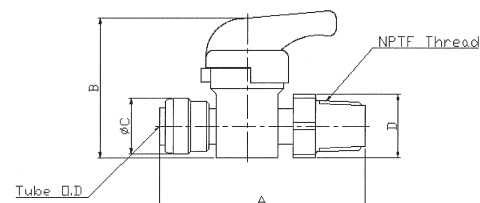
PART NUMBER	O.D. TUBE	A	B	C	D
HV462ACT-4	1/4	1.882	1.483	.591	.591
HV462ACT-6	3/8	2.163	1.793	.783	.783

**HV466 HAND VALVE FEMALE ADAPTER**

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C	D
HV466ACT-4B	1/4	1/4	1.892	1.963	1.357	.591
HV466ACT-6C	3/8	3/8	2.295	2.183	1.649	.783

**HV468 HAND VALVE MALE CONNECTOR**

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C	D
HV468ACT-4B	1/4	1/4	2.201	1.484	.591	.669
HV468ACT-6C	3/8	3/8	2.472	1.703	.783	.748



CHECK VALVES

FEATURES:

- USED TO PREVENT REVERSE FLOW
- MINIMIZED SIZE FOR TIGHT INSTALLATIONS

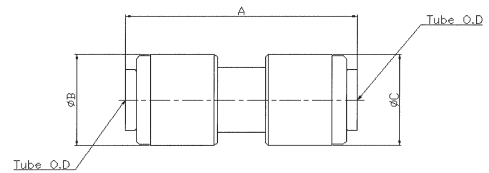


NOTE:

- FOR APPLICATIONS OTHER THAN FOOD BEVERAGE AND WATER REFER TO CHEMICAL PROPERTY.
- DO NOT APPLY EXCESSIVE VIBRATION, ROTATION, BODY PULLING OR TWISTING TO THE FITTING AS THE VALVE BODY MAY INCUR DAMAGE OR COLLETS MAY DISLOCATE.

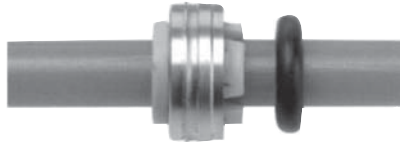
CKV462 CHECK VALVE

PART NUMBER	O.D. TUBE	A	B	C
CKV462ACT-4	1/4	1.406	.591	.591
CKV462ACT-6	3/8	1.627	.783	.783

**CARTRIDGES**

FEATURES:

- BRASS AND STAINLESS CARTRIDGES OFFER A METHOD OF INTEGRATING QUICK CONNECT TECHNOLOGY INTO COMPONENTS MADE BY A WIDE VARIETY OF METALS

**BCAR BRASS CARTRIDGE**

PART NUMBER	O.D. TUBE
BCAR-2.5	5/32
BCAR-3	3/16
BCAR-4	1/4
BCAR-5	5/16
BCAR-6	3/8
BCAR-8	1/2

SCAR STAINLESS CARTRIDGE

PART NUMBER	O.D. TUBE
SCAR-2.5	5/32
SCAR-3	3/16
SCAR-4	1/4
SCAR-5	5/16
SCAR-6	3/8
SCAR-8	1/2