" R Ξ Α = H

820 • Female Cross

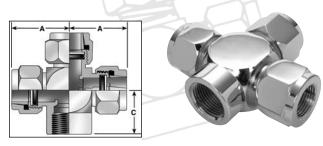
Part No.	Tube O.D.	Female Pipe Thread	"A" (Tube Leg)	"C" Female Pipe Leg	
820-4-4-4-2	1⁄4"	1⁄8"	1 1⁄16"	21/32"	
820-5-5-5-2	⁵ ⁄16"	1⁄8"	1 ¹ /32"	21 _{/32} "	
820-6-6-6-4	3⁄8"	1⁄4"	1 ¹ ⁄4"	²⁹ ⁄32"	
820-8-8-8-6	1⁄2"	3⁄8"	1 ¹⁷ /32"	31 _{/32} "	
820-10-10-10-8	5⁄8"	1⁄2"	1 ²³ ⁄32"	1 1⁄4"	
820-12-12-12-12	3⁄4"	3⁄4"	1 ³¹ /32"	1 ¹¹ /32"	
820-14-14-14-12	7⁄8"	3⁄4"	2"	1 ¹¹ /32"	
820-16-16-16-16	1"	1"	2 ¹¹ /32"	15⁄8"	
820-20-20-20-20	1 ¹ ⁄4"	1 ¹ /4"	2 ²⁵ /32"	1 ¹¹ ⁄16"	
820-24-24-24-24	11⁄2"	1 1⁄2"	3 ³ ⁄32"	2 ¹ /16"	
820-32-32-32-32	2"	2"	3 ²⁵ /32"	23⁄8"	

850 • Tube Cross

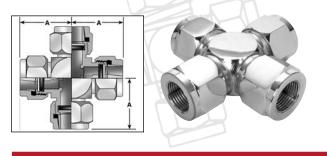
Part No.	Tube O.D.	"A" (Tube Leg)
850-4	1⁄4"	1"
850-5	5⁄16"	1 ¹ /32"
850-6	3⁄8"	1 1⁄8"
850-8	1⁄2"	1 ¹⁵ ⁄32"
850-10	5⁄8"	1 ²¹ ⁄32"
850-12	3⁄4"	1 ²⁷ ⁄32"
850-14	7⁄8"	1 ¹⁵ ⁄16"
850-16	1"	2 ⁷ /32"
850-20	11⁄4"	219/32"
850-24	11⁄2"	2 ²⁹ /32"
850-32	2"	3 ¹⁹ /32"

820 FEMALE CROSS • TUBE END -**TUBE END - TUBE END - FEMALE PIPE END**

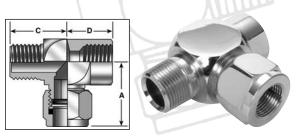
D



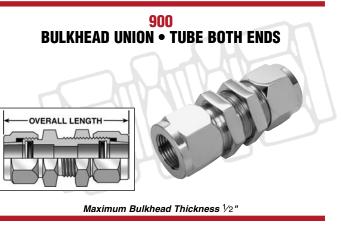
850 **TUBE CROSS TUBE END - ALL OPENINGS**



860 **GAUGE TEE • FEMALE PIPE END -MALE PIPE END - TUBE SIDE OUTLET**



Particularly suited for gauge & air bleeder valve connections



860 • Gauge Tee

Part No.	Tube O.D.	Male & Female Pipe Thread	"A" (Tube Leg)	"C" (Male Pipe Leg)	"D" Female Pipe Leg)
860-4-2-2	1⁄4"	1⁄8"	1 1⁄16"	25 _{/32} "	21 _{/32} "
860-6-4-4	3⁄8"	1⁄4"	1 ¹ ⁄4"	1 ³ ⁄32"	²⁹ ⁄32"
860-8-6-6	1⁄2"	3⁄8"	1 ¹⁷ /32"	17⁄32"	31 _{/32} "
860-10-8-8	5⁄8"	1⁄2	1 ²³ ⁄32"	1 ¹⁵ ⁄32"	1 ¹ ⁄4"
860-12-12-12	3⁄4"	3⁄4"	1 ³¹ /32"	1 ¹⁵ ⁄32"	1 ¹¹ ⁄32"
860-14-12-12	7⁄8"	3⁄4"	2"	15⁄8"	1 ¹¹ /32"
860-16-16-16	1"	1"	2 ¹¹ /32"	1 ³¹ ⁄32"	15⁄8"

900 • Bulkhead Union

Part No.	Tube O.D.	Bulkhead Hole Dia.	Overall Length
900-4-4	1⁄4"	17/ ₃₂ "	27/16"
900-5-5	5⁄16"	19 _{/32} "	2 7⁄16"
900-6-6	3⁄8"	²¹ /32"	2 ⁵ ⁄8"
900-8-8	1⁄2"	29⁄32"	35/32"
900-10-10	5⁄8"	1 1⁄32	31⁄2"
900-10-8	5⁄8" to 1⁄2" BH	²⁹ ⁄32"	3 ⁹ ⁄32"
900-12-12	3⁄4"	1 ⁵ ⁄32"	3 ¹³ ⁄16"
900-14-14	7⁄8"	1 ⁹ ⁄32"	37⁄8"
900-16-16	1"	1 ¹⁷ ⁄32"	41⁄8"
900-20-20	11⁄4"	1 ²⁵ ⁄32"	45⁄8"
900-20-16	1 ¹ ⁄4" to 1" BH	1 ¹⁷ ⁄32"	4 ¹³ / ₃₂ "
900-24-24	1 ¹ ⁄2"	2 ¹ /32"	47⁄8"
900-32-32	2"	2 ²¹ /32"	5 ³ ⁄4"

Stainless Steel Tubing Lenz O-ring Seal tube fitting performs equally well on stainless steel tubing as with carbon steel tubing, but requires the use of stainless steel sleeves (#165-xxSS) and stainless steel buffer washers (#195-xx-SS), even when used with steel fittings. Example, when ordering: 100-12-12 with ss sleeves. When Ordering Lenz Fittings in all Stainless Steel Add SS To The Part Number. Example: 100-12-12-SS

LENZ HYDRAULIC STEEL TUBING Dead Soft • Fully Annealed • Bright Finish

Superior grade tubing selected for excellence of bending and flaring. The formula given below is determined with the flow calculated to give nominal pressure drop through tubing having the diameter and wall thickness as indicated in the table to left. This flow is based on a velocity of 15 feet per second and fluids having a maximum viscosity of 315 S.S.U.

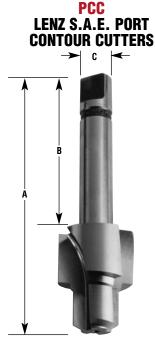
Formula

$$GPM = \frac{\pi D^2 \times 15}{1.283} = 36.69 \times D^2$$

*D = Inside Diameter of Tubing

Furnished in 12 Ft. Lengths-Longer Lengths On Request. **Safety Factor of 5 means that the tubing will burst at 5 times the working pressure indicated.

	Lenz Hydraulic Steel Tubing					
Size No.	0.D.	I.D.	Wall Thickness	G.P.M. Flow	Working Pressure	
4.035	1/4"	.180	.035	1.2	2800	
4.049	1/4"	.152	.049	.85	3920	
5.035	⁵ /16"	.242	.035	2.15	2240	
5.049	⁵ /16"	.214	.049	1.68	3136	
6.035	3/8"	.305	.035	3.45	1867	
6.049	³ /8"	.277	.049	2.82	2613	
6.065	3/8"	.245	.065	2.2	3467	
8.035	1/2"	.430	.035	6.79	1400	
8.049	1/2"	.402	.049	5.92	1960	
8.065	1/2"	.370	.065	5.03	2600	
10.049	5/8"	.527	.049	10.2	1568	
10.065	5/8"	.495	.065	9.0	2080	
10.095	5/8"	.435	.095	6.94	3040	
12.049	3/4"	.652	.049	15.6	1307	
12.065	3/4"	.620	.065	14.1	1733	
12.095	3/4"	.560	.095	11.5	2533	
12.109	3/4"	.532	.109	10.4	2907	
14.049	7/8"	.777	.049	22.1	1120	
14.065	7/8"	.745	.065	20.4	1486	
14.095	7/8"	.685	.095	17.2	2171	
16.065	1"	.870	.065	27.8	1300	
16.095	1"	.810	.095	24.1	1900	
16.120	1"	.760	.120	21.2	2400	
20.065	1 ¹ /4"	1.120	.065	46.0	1040	
20.095	1 ¹ /4"	1.060	.095	41.2	1520	
20.120	1 ¹ /4"	1.010	.120	37.4	1920	
24.095	1 ¹ /2"	1.310	.095	63.0	1267	
24.120	1 ¹ /2"	1.260	.120	58.1	1600	



These tools have three flutes which form the standard internal O-Ring Boss for straight thread tube fittings. Standard in high-speed steel. Carbide tipped available on special order. Four flute cutters available on special order.

PCT LENZ PRECISION S.A.E. PORT THREAD TAPS



PCC-LENZ S.A.E. Port Contour Cutter

Part No.	Tube O.D.	Thread Size	"A" Overall Length	"B" Shank Length	"C" Shank Dia.
PCC-2	1/8"	⁵ /16"-24	3 ²³ /32"	2 ¹¹ /64"	.500
PCC-4	1/4"	⁷ /16"-20	3 ^{25/} 32"	2 ⁵ /32"	.500
PCC-5	⁵ /16"	1/2"-20	3 ^{27/} 32"	27/32"	.500
PCC-6	³ /8"	⁹ /16" -18	3 ²⁹ /32"	2 ⁵ /64"	.500
PCC-8	1/2"	³ /4"-16	3 ^{31/32} "	2 ¹ /16"	.500
PCC-10	5/8"	⁷ /8" -1 4	3 ^{31/32} "	1 ⁵³ /64"	.750
PCC-12	3/4"	1 ¹ /16"-12	4 ¹ /8"	1 ⁵⁵ /64"	.750
PCC-14	7/8"	1 ³ /16"-12	41/8"	1 ²⁷ /32"	.750
PCC-16	1"	1 ⁵ /16"-12	4 ¹ /8"	1 ²⁷ /32"	.750
PCC-20	1 ¹ /4"	1 ⁵ /8"-12	4 ¹ /8"	1 ⁵³ /64"	1.000
PCC-24	1 ¹ /2"	17/8"-12	41/8"	1 ¹³ /16"	1.000
PCC-32	2"	2 ¹ /2"-12	41/4"	1 ^{29/} 32"	1.000

PCT • LENZ Precision S.A.E. Port Thread Taps

Part Number	Tube O.D.	Thread Size			
PCT-2	1/8"	⁵ /16"-24			
PCT-4	1/4"	⁷ /16"-20			
PCT-5	⁵ /16"	¹ /2"-20			
PCT-6	3/8"	⁹ /16" -1 8			
PCT-8	1/2"	³ /4"-16			
PCT-10	5/8"	⁷ /8"-14			
PCT-12	3/4"	1 ¹ /16"-12			
PCT-14	7/8"	1 ³ /16"-12			
PCT-16	1"	1 ⁵ /16"-12			
PCT-20	1 ¹ /4"	1 ⁵ /8"-12			
PCT-24	1 ¹ /2"	1 ⁷ /8"-12			
PCT-32	2"	21/2"-12			

LENZ • P.O. BOX 1044 • DAYTON, OHIO 45401-1044 • PHONE: 937/277-9364 • FAX: 937/277-6516 OFFICE & FACTORY • 3301 KLEPINGER ROAD • DAYTON, OHIO 45406-1842 INTERNET: http://www.lenzinc.com