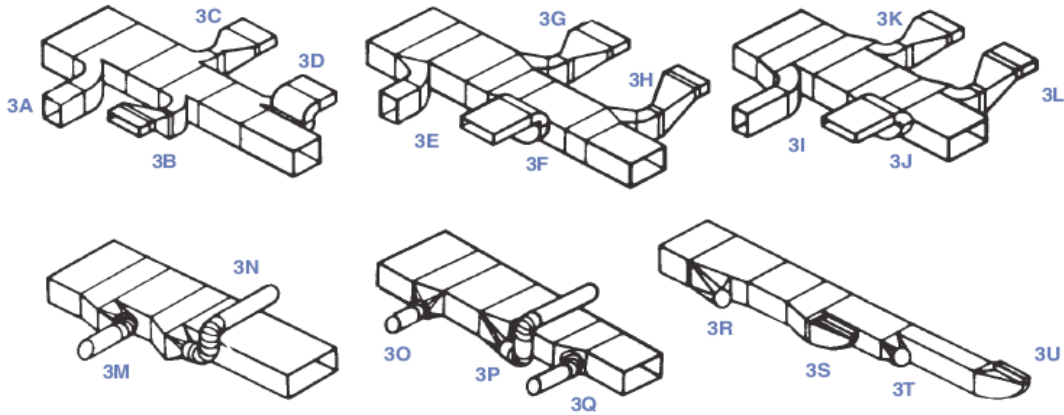


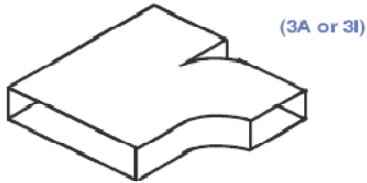
Group 3
Reducing Trunk Takeoff Fittings
 Reference Velocity = 900 Fpm
 Reference Friction Rate = 0.08 IWC per 100 Feet



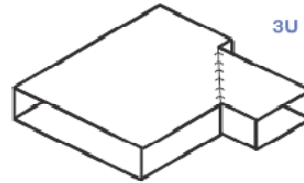
Fitting ID	EL	Description of Assembly
3A and 3I	15	Full radius takeoff
3B and 3L	30	Full radius takeoff plus offset transition
3C and 3K	20	Full radius takeoff plus straight transition
3D and 3J	35	Radius takeoff elbow (see 3S) plus easy-bend elbow
	55	Tight radius takeoff elbow (see 3S) plus easy-bend elbow
	110	Mitered inside corner takeoff elbow (see 3S) plus easy-bend elbow
3E	30	Transition wall takeoff
3F	3D + 15	Transition wall takeoff elbow (radius, tight radius or mitered corner) plus easy-bend elbow
3G	35	Transition wall takeoff plus straight-aspect transition
3H	35	Transition wall takeoff plus offset-aspect transition
3M	25	In line eased takeoff fitting (see 3T) plus one elbow
3N	40	In line eased takeoff fitting (see 3T) plus two elbows
3O and 3R	20	Transition wall eased takeoff fitting (see note)
3P	50	Transition wall eased takeoff fitting plus two elbows (see note)
3Q	35	Transition wall eased takeoff fitting plus one elbow (see note)
3S and 3U	15	Full radius takeoff elbow
	35	Tight inside radius takeoff elbow
	90	Mitered inside corner takeoff elbow
3T	10	In line eased takeoff fitting

Note: Add 15 feet to the equivalent length if a round sleeve is simply butted to the transition wall.

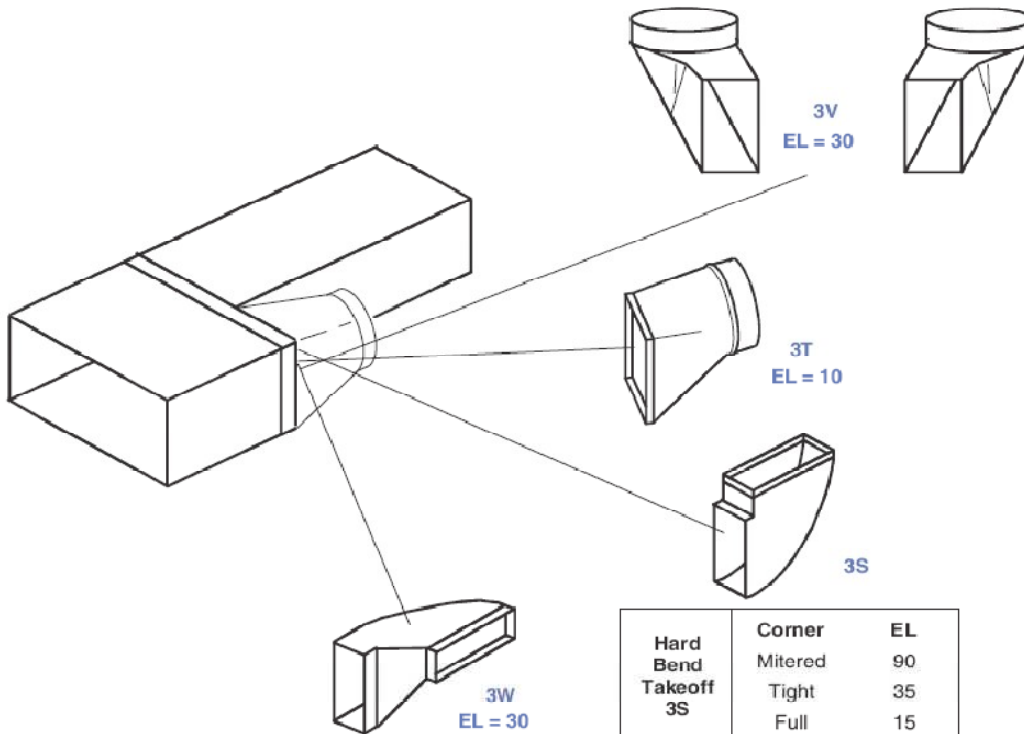
Group 3 — Continued
Reducing Trunk Takeoff Fittings
 Reference Velocity = 900 Fpm
 Reference Friction Rate = 0.08 IWC. per 100 Feet



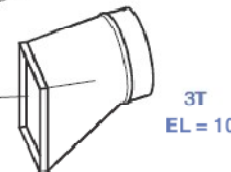
Full Radius Takeoff 3A or 3I	EL = 15
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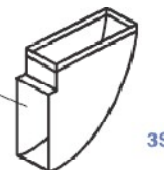
Mitered Takeoff 3U	Vanes	EL
	Yes	10
	No	80



3V
EL = 30

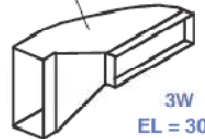


3T
EL = 10



3S

Hard Bend Takeoff 3S	Corner	EL
	Mitered	90
	Tight	35
	Full	15



3W
EL = 30