

**Assists in complying with safety regulations.**

**Tamper proof.**

**Compact and safe design.**

**Low pressure drop.**

**Automatically resets after failure correction.**

**High corrosion resistance.**

**High air pressure rating.**



### Technical data

#### Medium:

Compressed air, filtered, lubricated and non lubricated inert gases

#### Operating pressure:

Maximum 232 psi (16 bar)

Minimum according to hose length

Drop pressure at shut-off flow:

2 to 4.5 psi (0.14 or 0.3 bar)

#### Mounting:

In-line two way valve. To be inserted between fixed air supply and flexible hose air line. See guidelines for typical installation.

#### Operating temperature:

0°\*\* to 175°F (-20° to 80°C)

\*\*Consult our Technical Service for use below 35°F (2°C)

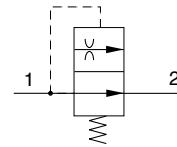
At low temperature ensure air fuse is not subjected to freezing conditions which may prevent its function.

#### Materials

Body: aluminum

Internal parts: brass

Spring: stainless steel

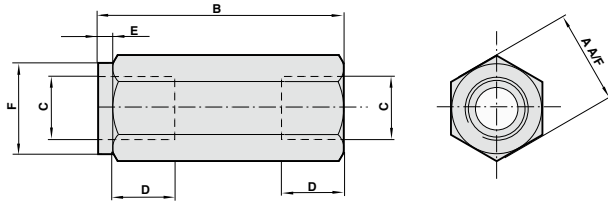


Model	ISO G	Port size	Drop pressure at shut off flow (psi)	Shut off flow rate at 100 psi	Flow at 100 psi DP 1 psi (scfm)	Weight oz.
T60A2890	T60C2890	1/4	2.0	17.6	13.8	1.4
T60A2891	T60C2891	1/4	4.4	29.7	13.8	1.4
T60A3890	T60C3890	3/8	2.0	41.1	28.6	2.3
T60A3891	T60C3891	3/8	4.4	68.2	28.6	2.3
T60A4890	T60C4890	1/2	2.0	68.2	49.2	5.3
T60A4891	T60C4891	1/2	4.4	102.3	49.2	5.3
T60A6890	T60C6890	3/4	2.0	102.3	91.1	4.6
T60A6891	T60C6891	3/4	4.4	169.5	91.1	4.6
T60A8890	T60C8890	1	2.0	195.0	144	19.0
T60A8891	T60C8891	1	4.4	271.0	144	19.0
T60AB890	T60CB890	1-1/2	2.0	394.0	307	38.8
T60AB891	T60CB891	1-1/2	4.4	568.0	307	38.8

NPT : according to ANSI-B1.20.1.  
 ISO G : according to BS2779 and ISO-228/1

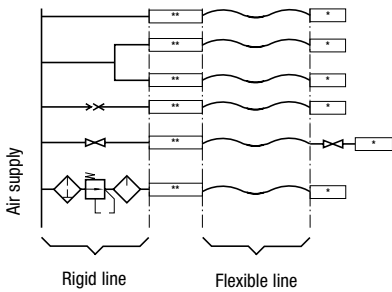
Flow and pressure test conducted according to ISO-6358 test circuit. Mean measured flow values are provided at standard reference conditions.

**T60**



Model	T60A289 NPT	T60C289 ISO G	T60A389 NPT	T60C389 ISO G	T60A489 NPT	T60C489 ISO G	T60A689 NPT	T60C689 ISO G	T60A889 NPT	T60C889 ISO G	T60A889 NPT	T60C889 ISO G
A	0.81	0.81	0.94	0.94	1.25	1.25	1.25	1.25	2.00	2.00	2.50	2.50
B	2.01	2.01	2.44	2.44	3.07	3.07	3.54	3.54	4.65	4.65	5.71	5.71
C	1/4	1/4	3/8	3/8	1/2	1/2	3/4	3/4	1.0	1.0	1.5	1.5
D	0.39	0.43	0.41	0.55	0.59	0.54	0.56	0.75	0.66	1.00	0.68	1.00
E	0.12	0.12	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
F	0.81	0.81	0.94	0.94	1.25	1.25	1.25	1.25	2.00	2.00	2.50	2.50

**Guidelines for typical installation**



The air fuse should be installed directly between fixed or rigid pipework and the flexible tube to protect the whole length of the flexible tube. Only tubing **after** the air fuse is protected. The air fuse must be installed in the correct orientation. Failure to do this will render it ineffective. When a shut off valve is located before the air fuse, the valve must be opened slowly in order to control initial air flow and avoid decompression effects which may trip the air fuse.

It should be noted that the OSHA standard (29 CFR ChXVII Para 1926.302-b7) relating to pneumatic power tools states "All hoses exceeding 1/2" inside diameter shall have a safety device at the source of supply or branch line to reduce pressure in the case of hose failure."

### How to select an air fuse

- The port size of the air fuse should be nominally equal to that of the supply lines e.g. a 1/2" (12,7mm) air fuse should be used with a 1/2" (12,7mm) ID hose.
- Always select the high flow model (91) if there is sufficient system pressure for the length of hose to be protected. See tables hose length vs minimum supply pressure.
- If there is insufficient system pressure, or long hose lengths are to be protected, use model 90.
- After installation always test each valve for proper function. See section how to check an air fuse below.
- The pneumatic system must be capable of delivering the flow required to activate the air fuse.
- For use with spring coils consult table. See table flow vs pressure supply.

### How to check an air fuse

- \* Install air fuse following the instructions supplied
- \* Connect tool or complete circuit to the air line
- \* Switch on operation to ensure a complete cycle is performed
- \* If tool or complete circuit starts and runs satisfactorily, stop operation and drain air line. Disconnect hose from tool or circuit and secure hose end. Turn on air supply progressively (to avoid decompression effect). Prior to fully reaching operation conditions, the valve should suddenly activate and cut off the flow. A slight air flow will remain as part of the automatic re-set function. If the air fuse is not activated the unit should be disconnected and the lower flow range air fuse should be used.

### Coiled hose selection table

Selection procedure for coiled hose: Choose the thread size of your hose, the hose internal diameter in inches and the hose length in feet. The minimum supply pressure in psi is shown in the table below and the appropriate air fuse is shown in the left column. The "" in the middle of the part number represents the thread type — put an "A" for NPT and a "C" for ISO G threads. If no value is shown, it may not be possible to protect your hose with an air fuse. In if doubt, consult a Norgren distributor or Norgren.

Valve Model	Thread Size	Hose length Feet	Internal Hose Diameter (inch)												
			0.125	0.188	0.215	0.250	0.313	0.370	0.470	0.500	0.590	0.750	1.000	1.250	1.500
T60*2890	1/4	12		124	64	29	16	11	8	8	8	7	7	7	7
T60*2890	1/4	25			126	52	25	14	9	9	8	7	7	7	7
T60*2890	1/4	50			244	97	42	21	11	10	8	7	7	7	7
T60*2890	1/4	100				187	76	35	15	13	10	8	7	7	7
T60*2891	1/4	12				70	31	17	10	9	8	7	7	7	7
T60*2891	1/4	25				137	57	27	13	11	9	8	7	7	7
T60*2891	1/4	50					107	47	19	15	11	8	7	7	7
T60*2891	1/4	100					207	87	30	23	14	9	8	7	7
T60*3890	3/8	12				125	52	25	12	11	9	8	7	7	7
T60*3890	3/8	25					102	45	18	15	10	8	7	7	7
T60*3890	3/8	50					196	82	29	22	14	9	8	7	7
T60*3890	3/8	100						157	50	38	20	11	8	7	7
T60*3891	3/8	12					132	57	21	17	11	8	8	7	7
T60*3891	3/8	25						111	37	28	16	10	8	7	7
T60*3891	3/8	50						215	67	49	25	12	8	8	7
T60*3891	3/8	100							126	91	42	17	9	8	7
T60*4890	1/2	12					132	57	21	17	11	8	8	7	7
T60*4890	1/2	25						111	37	28	16	10	8	7	7
T60*4890	1/2	50						215	67	49	25	12	8	8	7
T60*4890	1/2	100							126	91	42	17	9	8	7
T60*4891	1/2	12						119	39	30	17	10	8	7	7
T60*4891	1/2	25							74	54	27	13	8	8	7
T60*4891	1/2	50							141	102	46	18	10	8	8
T60*4891	1/2	100								196	85	29	12	9	8
T60*6890	3/4	12					119	39	30	17	10	8	7	7	7
T60*6890	3/4	25						74	54	27	13	8	8	7	7
T60*6890	3/4	50						141	102	46	18	10	8	8	8
T60*6890	3/4	100							196	85	29	12	9	8	8
T60*6891	3/4	12						96	70	33	15	9	8	7	7
T60*6891	3/4	25						193	139	62	23	11	8	8	8
T60*6891	3/4	50								116	38	14	9	8	8
T60*6891	3/4	100								224	69	20	11	9	9
T60*8890	1	12						123	89	41	17	9	8	7	7
T60*8890	1	25							178	78	27	12	9	8	8
T60*8890	1	50								148	47	16	10	8	8
T60*8890	1	100									88	24	13	9	9
T60*8891	1	12						231	166	73	26	11	8	8	8
T60*8891	1	25								144	46	16	10	8	8
T60*8891	1	50									85	24	12	9	9
T60*8891	1	100									163	41	17	11	11
T60*B890	1-1/2	12								147	47	16	10	8	8
T60*B890	1-1/2	25									90	25	13	9	9
T60*B890	1-1/2	50									173	43	18	11	11
T60*B890	1-1/2	100										78	29	16	16
T60*B891	1-1/2	12									89	25	13	9	9
T60*B891	1-1/2	25									179	44	18	12	12
T60*B891	1-1/2	50										81	30	16	16
T60*B891	1-1/2	100										154	52	24	24