

- Enables air to be exhausted quickly from air reservoirs and cylinders
- Allows higher cylinder speeds to be achieved
- Simple, compact design and construction
- Very reliable in operation



Technical Data

Medium:

Compressed air, filtered, lubricated and non-lubricated

Operation:

Poppet valve

Mounting:

Line mounted

Port Size:

Female Thread

(Inlet, outlet and exhaust ports)

	BSPP		NPT	
G 1/8	T70C1800	1/8	NPT	T70A1800
G 1/4	T70C2800	1/4	NPT	T70A2800
G 3/8	T70C3800	3/8	NPT	T70A3800
G 1/2	T70C4800	1/2	NPT	T70A4800

Operating Pressure:

0,5 - 10 bar

Operating Temperature:

-20°C* to +80°C

*Consult our Technical Service for use below +2°C

Materials

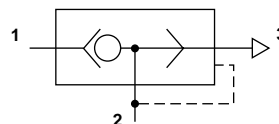
T70*1800 & T70*2800 - Zinc alloy body and cover, nitrile seals.

T70*3800 & T70*4800 - Aluminium alloy body and cover, nitrile seals.

Ordering Information

To order, quote model number from table overleaf, e.g. T70C2800 for the G 1/4 ported version

Quick Exhaust Valve





General Information

Model	Inlet port	Outlet port	Exhaust port	C*/Cv** Flow Factor Direction 1 - 2 ◊	C*/Cv** Flow Factor Direction 2 - 3	Critical Pressure Ratio (b)	Weight (kg)	Spares kit ^Δ
T70C1800 T70A1800	1/8	1/8	1/8	3,8 / 0,9	7,3/1,8	0,5	0,15	T70C1800K0
T70C2800 T70A2800	1/4	1/4	1/4	7,7/1,9	10/2,5	0,4	0,13	T70C2800K0
T70C3800 T70A3800	3/8	3/8	3/8	15,5/3,8	22,5/5,5	0,4	0,21	T70C3800K0
T70C4800 T70A4800	1/2	1/2	1/2	21,5/5,3	24/5,9	0,4	0,19	T70C4800K0

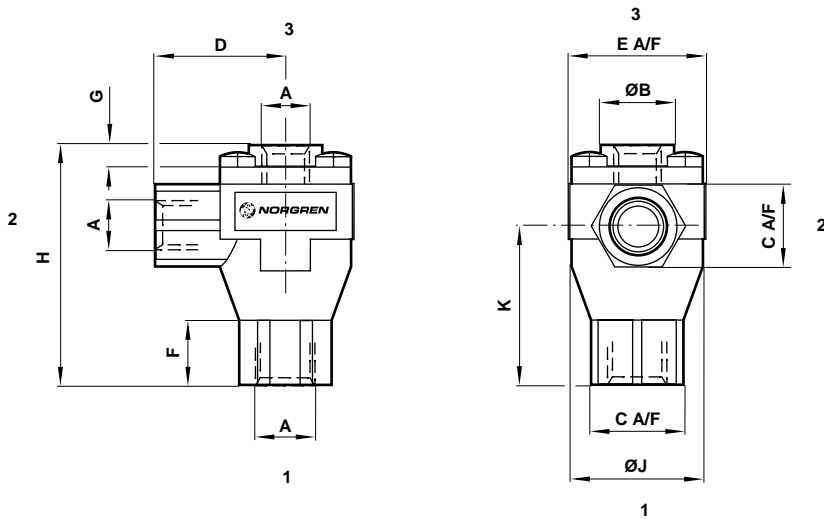
*C : measured in dm³/(s.bar)

**Cv : measured in US gal/min

◊ Flow factor measured at 6 bar

Δ Seals only

Quick Exhaust Valve



Model	T70C1800	T70A1800	T70C2800	T70A2800	T70C3800	T70A3800	T70C4800	T70A4800
A	G 1/8	1/8 NPT	G 1/4	1/4 NPT	G 3/8	3/8 NPT	G 1/2	1/2 NPT
ØB	19	19	19	19	30	30	30	30
C A/F	19	19	19	19	30	30	30	30
D	28	28	28	28	40	40	40	40
E A/F	30	30	30	30	46	46	46	46
F	15,3	15,3	15,3	15,3	15,5	15,5	15,5	15,5
G	3,5	3,5	3,5	3,5	4	4	4	4
H	53	53	53	53	73,5	73,5	73,5	73,5
ØJ	29	29	29	29	46	46	46	46
K	35,5	35,5	35,5	35,5	48	48	48	48



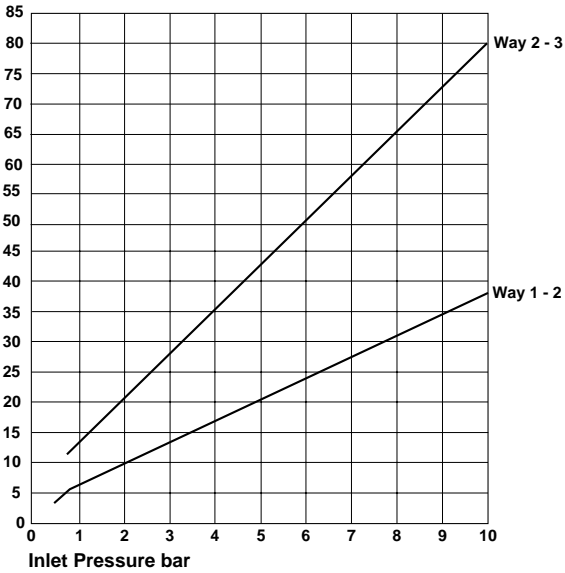
Performance Characteristics

Choked flow versus Inlet pressure Way 1 - 2 and Way 2 - 3

T70*1800 Flowrate

Choked flow versus Inlet pressure
Way (1 - 2) + (2 - 3)

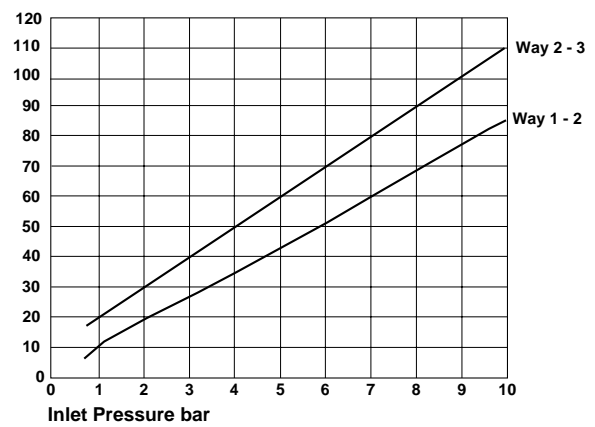
Choked Flow measured in dm³/s (ANR)



T70*2800 Flowrate

Choked flow versus Inlet pressure
Way (1 - 2) + (2 - 3)

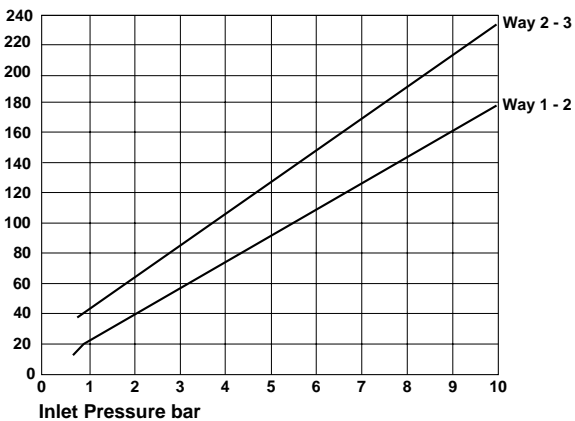
Choked Flow measured in dm³/s (ANR)



T70*3800 Flowrate

Choked flow versus Inlet pressure
Way (1 - 2) + (2 - 3)

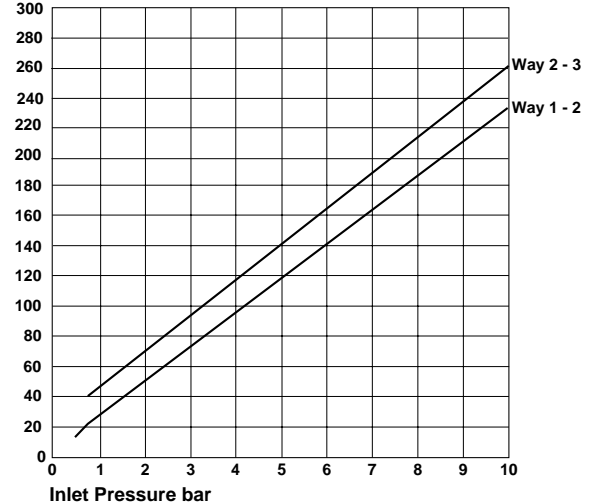
Choked Flow measured in dm³/s (ANR)



T70*4800 Flowrate

Choked flow versus Inlet pressure
Way (1 - 2) + (2 - 3)

Choked Flow measured in dm³/s (ANR)



Warning

These products are intended for use in industrial compressed air systems only. Do not use these products where pressures and temperatures can exceed those listed under 'Technical Data'.

Before using these products with fluids other than those specified, for non-industrial applications, life-support systems, or other applications not within published specifications, consult Norgren.

Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes. The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.

System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.

System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products where applicable.



- Enables air to be exhausted quickly from air reservoirs and cylinders
- Allows higher cylinder speeds to be achieved
- Simple, compact design and construction with integral silencer on some models
- Very reliable in operation



Technical Data

Medium:

Compressed air, filtered, lubricated and non-lubricated

Operation:

Poppet valve

Mounting:

Line mounted

Port Size:

Female Thread

(Inlet port-outlet ports)

BSPP

G^{1/4}-G^{3/8} S/510, S/513

G^{1/2}-G^{3/4} S/511, S/514

NPT

1/4NPT-3/8NPT C/510, C/513

1/2NPT-3/4NPT C/511, C/514

Operating Pressure:

0,7 - 10 bar S/510, C/510, S/511, C/511

0,7 - 7 bar S/513, C/513, S/514, C/514

Operating Temperature:

-20°C* to +80°C

*Consult our Technical Service for use below +2°C

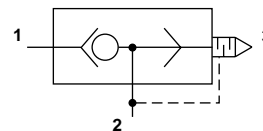
Materials

Zinc or aluminium alloy body, porous plastic element, POM (plastic) guard, nitrile 'O'ring, polyurethane seal.

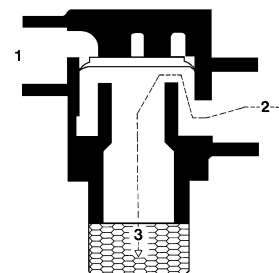
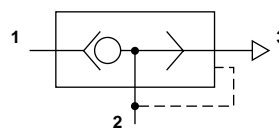
Ordering Information

To order, quote model number from table overleaf, e.g. S/513 for the G^{1/4} to G^{3/8} ported version with silencer

Quick Exhaust Valve with Silencer



Quick Exhaust Valve





General Information

Model	BSPP	NPT	Features	Inlet port	Outlet port	Exhaust port	C*/Cv** Flow Factor† Way 1 - 2	C*/Cv** Flow Factor† Way 2 - 3	Weight (kg)	Spares kit
S/513	C/513	C/513	Valve & Silencer	1/4	3/8	3/8	3,9 / 0,8	11 / 2,7	0,25	QS/510/00 ^Δ
S/514	C/514	C/514	Valve & Silencer	1/2	3/4	3/4	5,7 / 1,9	32 / 7,8	0,35	QS/511/00 ^Δ
S/510	C/510	C/510	Valve	1/4	3/8	3/8	3,9 / 0,8	16 / 8,9	0,19	QS/510/00 ^Δ
S/511	C/511	C/511	Valve	1/2	3/4	3/4	5,7 / 1,9	44 / 10,8	0,31	QS/511/00 ^Δ

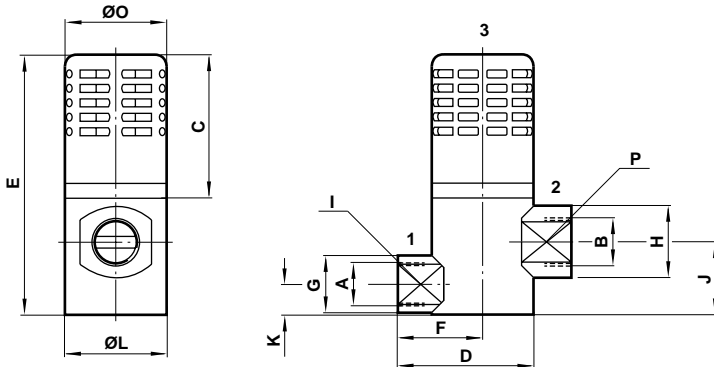
*C : measured in dm³/(s.bar) b = 0,6

**Cv : measured in US gal/min

† Flow Factor at 1 bar drop pressure

^Δ Seals and Silencer element included.

Quick Exhaust Valve with Silencer

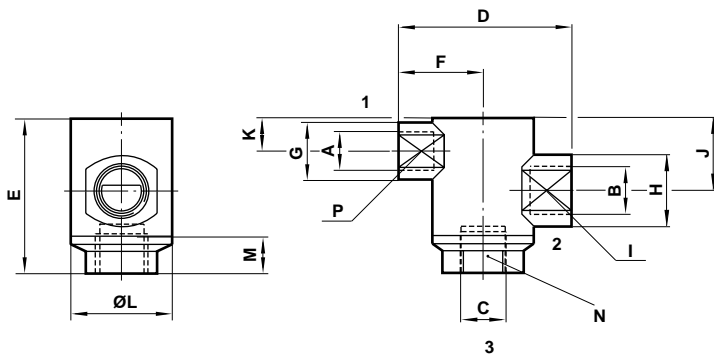


Model	A	B	C	D	E	F	G	H	I	J	K	ØL	ØO	P
S/513	G1/4*	G3/8*	47,5	58	86,5	29	18,0	23	23	23	10	34,0	34	21
C/513	1/4-NPT**	3/8-NPT**												
S/514	G1/2*	G3/4*	63,0	100	134,0	50	28,5	35	36	48	17	47,5	59	30
C/514	1/2-NPT**	3/4-NPT**												

* - ISO 228/1

** - ANSI-B1.20.1

Quick Exhaust Valve



Model	A	B	C	D	E	F	G	H	I	J	K	ØL	M	N	P
S/510	G1/4*	G3/8*	G3/8*	58	51	29	18,0	23	23	23	10	33,0	11,5	23	21
C/510	1/4-NPT**	3/8-NPT**	3/8-NPT**												
S/511	G1/2*	G3/4*	G3/4*	100	86	50	28,5	35	36	48	17	47,5	15,0	32	30
C/511	1/2-NPT**	3/4-NPT**	3/4-NPT**												

* - ISO 228/1

** - NPT ANSI-B1.20.1

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