Алматы (7273)495-231
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81
Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37
Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Саранск (8342)22-96-24
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97
Тверь (4822)63-31-35
Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

Россия +7(495)268-04-70 **Казахстан** +7(7172)727-132 **Киргизия** +996(312)96-26-47

www.norgren.nt-rt.ru | | ner@nt-rt.ru

Технические характеристики на функциональные клапаны Martonair, Pneufit, 102GA, 102GB, 102GD, S/51, T60, T65, T70 компании IMI NORGREN

Виды товаров: клапаны быстрого выпуска, челночные клапаны, запорные клапаны, клапаны датчика давления, редукционные клапаны.

NORGREN®

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102GB
Pressure reduction valve

- Port size: 1/8 ... 1/2"
- Thread form: ISO G
- Compact units
- System running cost savings by optimising cylinder pressure
- Designed for mounting on valves
- Relief feature to protect against over pressure

Technical features

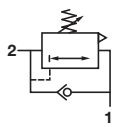
Medium:
Compressed air
Operation:
It is often necessary to provide a secondary reduced pressure to an actuator to control its operating force. A pressure reducing fitting provides this function, which can be manually adjusted to the required pressure level. The relieving function gives a safety feature satisfying EN983 (Safety of Machinery) regarding protection under external loads. This states that a means shall be provided to prevent unacceptable pressure build-up where high external loads are reflected on actuators.

Operating pressure:
1... 16 bar (14 ... 232 psi) (primary)
1 ... 8 bar (14 .... 116 psi) (secondary)
Thread size:
G1/8, G1/4, G3/8, G1/2

Ambient/Media temperature:
-10°C ... +70°C (+14 ... +158°F)
Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).

Materials:
Banjo body: Aluminium
Retaining ring: PA
Banjo bolt and valve: Brass - zinc plated
Washer: NBR

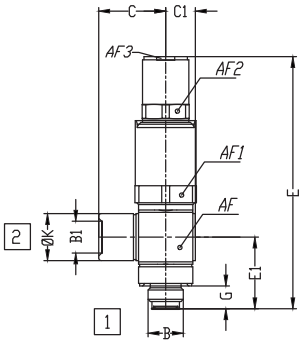
Technical data

Symbol	Port size 1	Port size 2	Model
	G1/8	G1/8	102GB1818
	G1/4	G1/4	102GB2828
	G3/8	G3/8	102GB3838
	G1/2	G1/2	102GB4848

IMI

Dimensions

Dimensions in mm
Projection/First angle



B	B1	C	C1	E	E1	G	ØK	AF	AF1	AF2	AF3	Weight (g)	Model
G1/8	G1/8	18.5	8.4	70	19.8	6.3	13	15	17	13	5	57	102GB1818
G1/4	G1/4	22.5	10.4	78	25.8	9.5	18	19	17	13	5	76	102GB2828
G3/8	G3/8	28.5	12.5	85.7	29	9.7	23	23	23	17	6	132	102GB3838
G1/2	G1/2	31	15.3	86.7	32	9.5	25	28	27	17	6	181	102GB4848

Warning

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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 Ltd.

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.

102GD
Pressure sensor valve

- **Port size: Ø 4 mm, G1/8 & G1/4**
- **Very compact units**
- **Easy tube insertion for rapid assembly of pneumatic circuits**
- **Positive tube anchorage**
- **Simpler pneumatic systems**
- **Eliminates need for electrical sensors on actuators**

Technical features

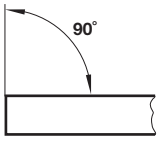
Medium:
Compressed air
Operation:
Used to provide an air signal when a cylinder has reached the end of travel, sensor fittings operate by detecting the drop in exhaust pressure at the end of a stroke. They effectively offer an allpneumatic option to the electrical reed switch, and can be used in 1/8 and 1/4 BSP cylinder ports.

Operating pressure:
10 bar (145 psi) max. (cylinder pressure)
3 ... 10 bar (43 ... 145 psi) (sensor supply pressure)
Tube size:
4 mm
Thread size:
G1/8 & G1/4

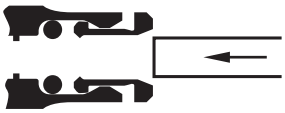
Tube types:
Nylon 11 or 12, polyurethane and other plasticised or unplasticised tubing
Ambient/Media temperature:
-20°C ... +80°C (-4 ... +176°F)
Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F)

Materials
Body: PA
Banjo bolt: nickel plated brass
Washer: NBR and PU

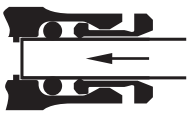
Method of assembly



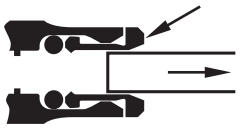
1. Ensure that the end of the tube is cut square and is free from burrs.



2. Push the tube through the collet into the fitting.

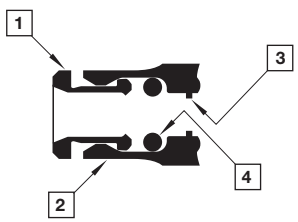


3. Continue pushing the tube through the 'O'-ring until it bottoms on the tube stop then pull back.



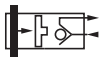
4. To disconnect push the tube into the fitting, hold down the collet and withdraw the tube.

Components



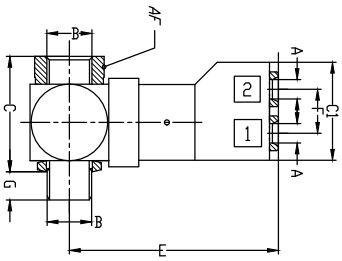
1 Collet
2 Body
3 Tube stop
4 'O'-ring

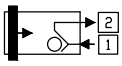
Technical data

Symbol	O/D tube A (mm)	Port size B	Model
	4	G1/8	102GD0418
	4	G1/4	102GD0428

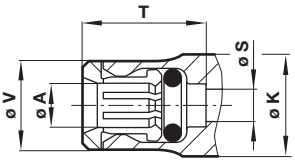
Dimensions

Dimensions in mm
Projection/First angle





ØA	B	C	C1	E	F	G	AF	Weight (g)	Model
4	G1/8	25	21	45.2	9.5	5.5	15	376	102GD0418
4	G1/4	29	21	47.2	9.5	6.5	19	550	102GD0428



Ø A O/D tube	Ø S	Ø T *1)	V	Ø K
4	2,8	14	7,5	10

*1) Dimensions here and in the individual tables refer to the collet being in the 'IN' position.

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T70
Quick exhaust valves

- **Port size: G1/8 ... G1/2**
- **Enables air to be exhausted quickly from air cylinders**
- **Allows higher cylinder speeds to be achieved**
- **Simple, compact design and construction**
- **Very reliable in operation**

Technical features

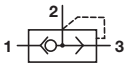
Medium:
Compressed air, filtered, lubricated or non-lubricated
Operation:
Poppet valve

Operating pressure:
0,5 ... 10 bar (7 ... 145 psi)
Port size:
G1/8,G1/4,G3/8,G1/2
Mounting:
Line mounted

Ambient/Media temperature:
-20°C ... +80°C max.(-4 ... +176°F)
Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F)

Materials:
Body and Cover:
Aluminium or zinc alloy
Seals: NBR

Technical data, standard models

Symbol	Port size			Flow factor 1 » 2			Flow factor 2 » 3			Flow from 1 » 2 at 6 » 5 bar	Weight	Spare kit	Model *3)
	Inlet	Outlet	Exhaust	C *1)	Cv	Kv *2)	C*1)	Cv	Kv*2)	(dm³ /min)	(kg)		
	G1/8	G1/8	G1/8	3,8	0,93	0,81	7	1,72	1,49	837	0,15	T70C1800K0	T70C1800
	G1/4	G1/4	G1/4	7,4	1,8	1,58	9,7	2,38	2,07	1289	0,13	T70C2800K0	T70C2800
	G3/8	G3/8	G3/8	14,5	3,55	3,1	20,5	5	4,37	2656	0,21	T70C3800K0	T70C3800
	G1/2	G1/2	G1/2	19,7	4,83	4,2	25	6,13	5,33	3101	0,19	T70C4800K0	T70C4800

*1) Measured in dm³/(s.bar)
*2) Measured in m³/h

Options selector

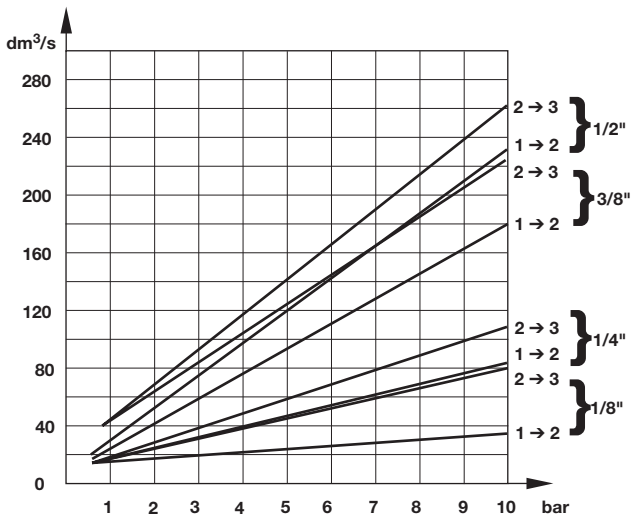
T70★★★00

Thread form	Substitute
ISO G, parallel	C
NPT	A

Port size	Substitute
1/8"	18
1/4"	28
3/8"	38
1/2"	48

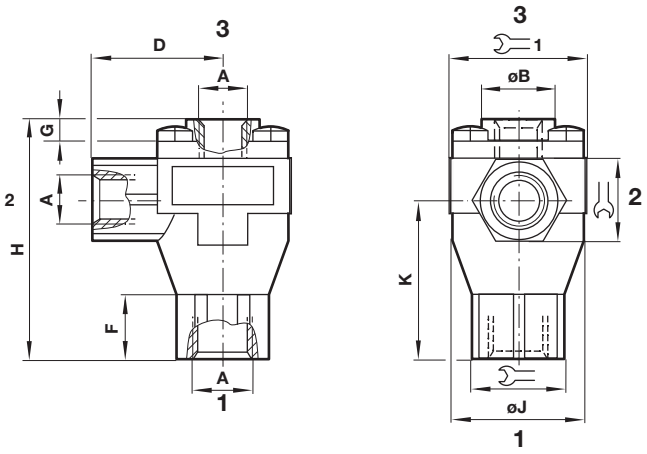
Characteristic curves

Choked flow versus inlet pressure
Way (1 » 2) and (2 » 3)



Drawing

Dimensions in mm
Projection/First angle



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

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T60 Air fuse , in-line excess flow shut-off valves

- **Port size: G1/4 ... G1 1/2**
- **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 features

Medium:
Compressed air, filtered, lubricated and non-lubricated, inert gases
Operation:
Fixed uni-directional excess flow automatic shut off valve.
Operating pressure:
16 bar max. (232 psi)
Minimum according to hose length. Drop pressure at shut-off flow . 0,14 or 0,3 bar (2 or 4 psi)

Port size:
G1/4, G3/8, G1/2, G3/4, G1, G1 1/2
Mounting:
In-line two ways valve
To be inserted between fixed air supply and flexible hose air line
See guidelines for typical installation

Ambient/Media temperature:
-20 ... +80°C max. (-4 ... +176°F)
Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F)

Materials:
Body: Aluminium
Internal parts: Brass
Spring: Stainless steel

Technical data, standard models

Function	Port size	Drop pressure at shut off flow (bar)	Shut off flow rate at 7 bar (dm^3/s) ±10%	Flow at 7 bar Δ p 0,07 bar (dm^3/s)	Weight (kg)	Model
	G1/4	0,14	8,3	6,5	0,041	T60C2890
	G1/4	0,3	14	6,5	0,041	T60C2891
	G3/8	0,14	19,4	13,5	0,065	T60C3890
	G3/8	0,3	32,2	13,5	0,065	T60C3891
	G1/2	0,14	32,2	23,2	0,150	T60C4890
	G1/2	0,3	48,3	23,2	0,150	T60C4891
	G3/4	0,14	48,3	43	0,130	T60C6890
	G3/4	0,3	80	43	0,130	T60C6891
	G1	0,14	92	68	0,540	T60C8890
	G1	0,3	128	68	0,540	T60C8891
	G1 1/2	0,14	186	145	1,1	T60CB890
	G1 1/2	0,3	268	145	1,1	T60CB891

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

Options selector

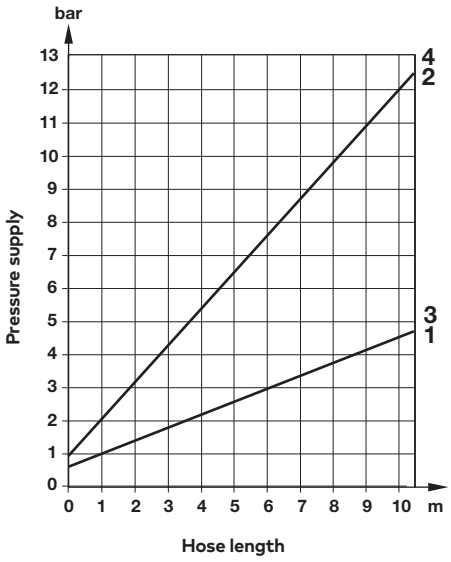
T60★★★★★★

Thread	Substitute
ISO G, parallel	**C**
NPT	**A**

Flow range	Substitute
0,14	**90**
0,3	**91**
Port size	**Substitute**
1/4"	**28**
3/8"	**38**
1/2"	**48**
3/4"	**68**
1"	**88**
1 1/2"	**B8**

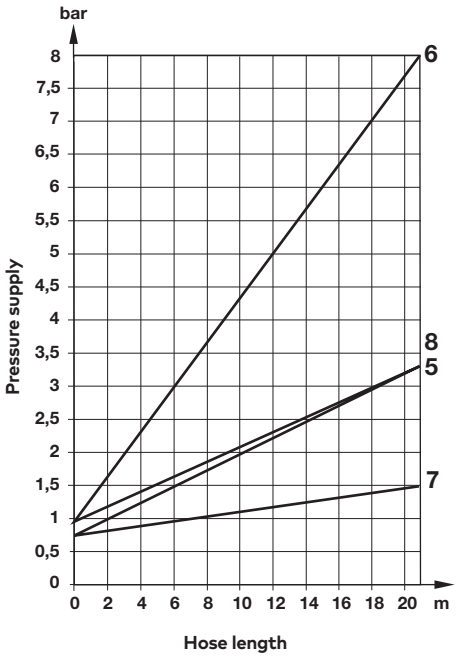
Minimum pressure required to shut off the air supply - check failure flow conditions

Hose length vs minimum pressure supply (1/4" ... 3/8")



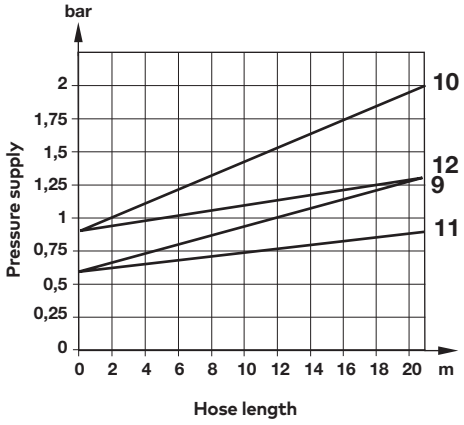
1 T60 * 2890 (ID = 6,6mm)
2 T60 * 2891 (ID = 6,6mm)
3 T60 * 3890 (ID = 9,0mm)
4 T60 * 3891 (ID = 9,0mm)

Hose length vs minimum pressure supply (1/2" ... 3/4")



5 T60 * 4890 (ID = 13mm)
6 T60 * 4891 (ID = 13mm)
7 T60 * 6890 (ID = 19mm)
8 T60 * 6891 (ID = 19mm)

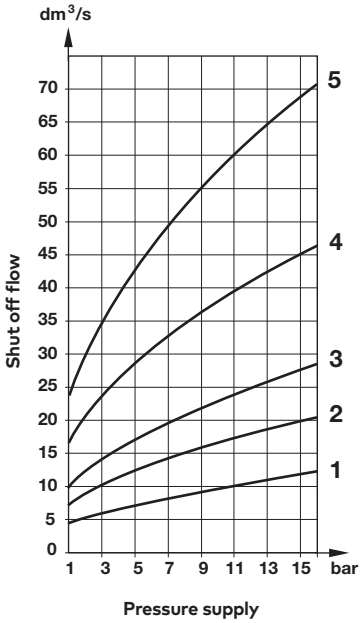
Hose length vs minimum pressure supply (1" ... 1 1/2")



9 T60 * 8890 (ID = 25,4mm)
10 T60 * 8891 (ID = 25,4mm)
11 T60 * B890 (ID = 38,1mm)
12 T60 * B891 (ID = 38,1mm)

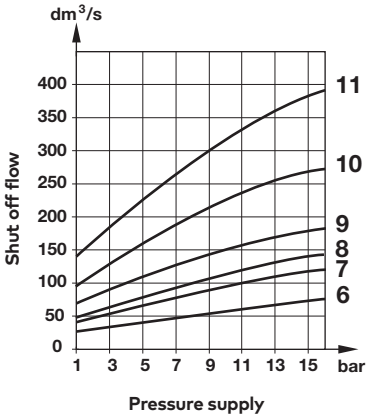
Flow required to shut off air supply – check normal flow conditions

Flow (±10%) vs pressure supply (1/4 ... 1/2")



1 T60 * 2890
2 T60 * 2891
3 T60 * 3890
4 T60 * 3891
5 T60 * 4890
6 T60 * 4891

Flow (±10%) vs pressure supply (3/4 ... 11/2")



6 T60 * 6890
7 T60 * 6891
8 T60 * 8890
9 T60 * 8891
10 T60 * B890
11 T60 * B891

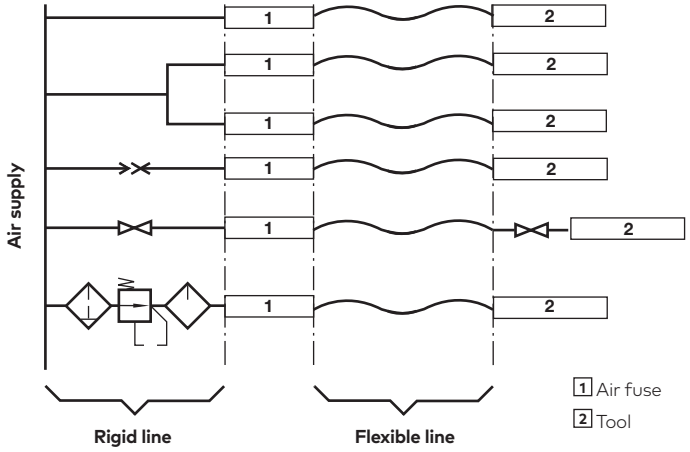
Measurements
Flow and pressure tests conducted according to ISO-6358 test circuit.
Mean measured flow values are provided at standard reference condition (20°C, 1,01 bar).
Indicated pressure values are relative pressure in bar.

Hose lengths
Graphs are for indicated hose internal diameter in key.
Consult our Technical Service for hose lengths and internal diameters different from the recommended one.

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 direction for Airflow. Failure to do this will render the Air Fuse 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.



How to select an air fuse

a) The Port size of the Air Fuse should be nominally equal to that of the supply lines - eg a 1/2'' (12.7mm) Air Fuse should be used with a 1/2'' (12.7mm) ID hose.

b) 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.

c) If there is insufficient system pressure, or long hose lengths are to be protected, use model 90.

d) After installation always test each valve for proper function.
See section how to check an Air Fuse below.

e) The pneumatic system must be capable of delivering the flow required to activate the Air Fuse.

f) 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.

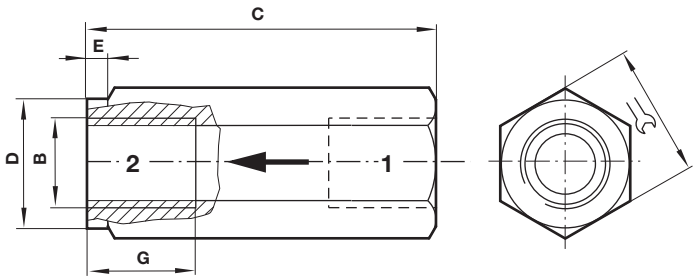
Spring coils and air fuse minimum required pressure (bar)

Air Fuse T60C2890	T60C2891	T60C3890	T60C3891	T60C4890	T60C4891	Spring Coils Model
4,1						PA330800328
5,4						PA330800428
1,0	2,5	4,8				PA331000328
1,2	3,3	6,4				PA331000428
1,5	4,2					PA331000528
2,2	6,2					PA331000828
4,4						PA331001528
0,7	0,9	1,5	4,1			PA331200338
0,7	1,0	2,0	5,4			PA331200438
0,7	1,3	2,4				PA331200538
0,7	1,9	3,7				PA331200838
1,4	3,8					PA331201538
0,7	0,9	0,7	1,5	1,5	3,5	PA331500348
0,7	0,9	0,7	2,1	2,1	4,6	PA331500448
0,7	0,9	0,9	2,6	2,6	5,8	PA331500548
0,7	0,9	1,4	3,8	3,8		PA331500848
5,4						PU310800228
1,3	3,8					PU311000228
2,7						PU311000428
5,0						PU311000628
6,0						PU311000828
0,7	1,2	2,4	6,6			PU311200238
0,9	2,5	4,8				PU311200438
1,3	3,7					PU311200638
1,6	4,6					PU311200838

Note: Only the spring coils in these table can be protected by the air fuse!

Dimensions

Dimensions in mm
Projection/First angle



B	C	Ø D	E	G	⌲	Model
G1/4	51	20,5	3	11 (10)	21	T60C289
G3/8	62	24	5	14 (10,3)	24	T60C389
G1/2	78	32	5	15 (13.6)	32	T60C489
G3/4	90	32	5	19 (14,1)	32	T60C689
G1	118	51	5	25,5 (16,8)	51	T60C889
G1 1/2	145	63,5	5	25,5 (17,3)	64	T60CB89

Values in ( ) for NPT

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T65
Shuttle valve ('OR' logic function)

Port size: G1/8 & G1/4

Allow two independent signal sources to be connected to a common pilot line

Can be used to perform an 'OR' logic function

Can be combined to operate from three or more sources

Valves can be ganged together

Technical features

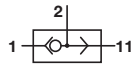
Medium:
Compressed air, filtered, lubricated or non-lubricated, inert gas
Operation:
Shuttle valve ('OR' logic function)

Operating pressure:
0,7 ... 10 bar (10 ... 145 psi)
Port size:
G1/8, G1/4
Mounting:
Line mounted

Ambient/Media temperature:
-20 ... +80°C max. (-4 ... +176°F)
Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F)

Materials:
Body: zinc alloy
Ball: NBR
Valve seat: brass

Technical data

Symbol	Port size	Flow factor C *1)	Cv	Kv *2)	Flow at 6 - 1 bar (dm³/min)	Weight (kg)	Model
	G 1/8	1,7	0,42	0,36	412	0,055	T65C1800
	G 1/4	2,6	0,64	0,56	631	0,130	T65C2800

*1) Measured in dm³/(s.bar)
*2) Measured in m³/h

Options selector

T65★★★00

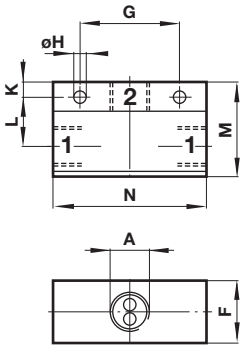
Thread form	Substitute
ISO G, parallel	C
NPT	A

Port size	Substitute
1/8"	18
1/4"	28

Drawing

A	F	G	Ø H	K	L	M	N	Model
G1/8	15	20	5,25	6	10	25	36	T65C1800
G1/4	20	25	5,25	8	12	30	50	T65C2800

Dimensions in mm
Projection/First angle



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- **Port size: G1/4, G1/2**
- **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 features

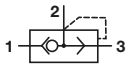
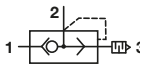
Medium:
Compressed air, filtered, lubricated and non-lubricated
Operating:
Quick exhaust valves

Operating pressure:
0,7 ... 10 bar (10 ... 145 psi) (S/511)
0,7 ... 7 bar (10 ... 101 psi) (S/513, S/514)
Port size:
G1/4 & G1/2
Mounting:
Line mounted

Ambient/Media temperature:
-20°C ... +80°C (-4 ... +176°F)
Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F)

Materials:
Body: zinc alloy (S/513), aluminium alloy (S/511, S/514)
Cover: aluminium (S/511), plastic POM (S/513, S/514)
Silencer shell:
plastic POM (S/513, S/514)
Element:
porous plastic (S/513, S/514)
Cup seal: PUR
'O'ring: NBR

Technical data

Symbol	Port 1	Flow (1 to 2) C *1)	Cv	Kv 2)*	at 6 ... 5 bar (l/min)	(2 to atm) C *1)	Cv	Kv *2)	Silencer at exhaust port	Weight (kg)	Spares kit (seals only)	Model
	G1/2	21,6	5,3	4,6	2022	39	9,56	8,3	no	0,31	QS/511/00	S/511
	G1/4	7,6	1,86	1,62	900	13,5	3,3	2,9	yes	0,25	QS/510/00	S/513
	G1/2	21,6	5,3	4,6	2022	39	9,56	8,3	yes	0,35	QS/511/00	S/514

*1) Measured in $dm^3/(s.bar)$
*2) Measured in m^3/h

Option selector

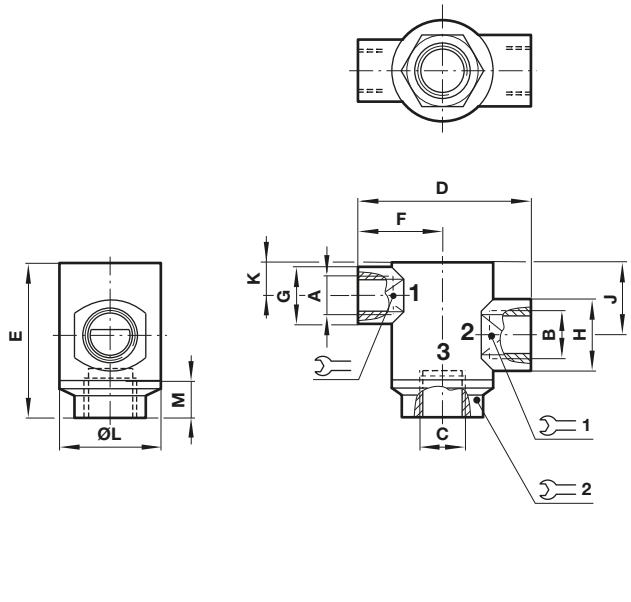
★/51★

Thread form	Substitute
ISO G, parallel	S
NPT	C

Port size	Substitute
1/2", without silencer	1
1/4", with silencer	3
1/2", with silencer	4

Drawings

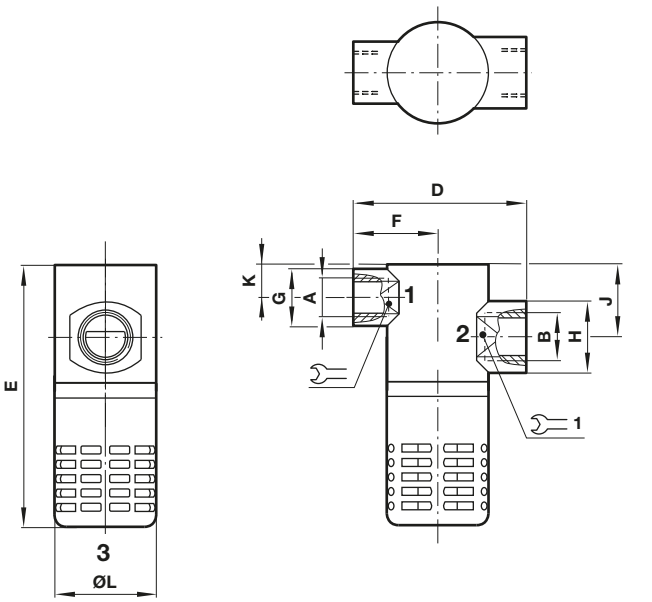
S/511



A	B	C	D	E	F	G	H
G1/2	G3/4	G3/4	100	86	50	28,5	35
	J	K	Ø L	M	2	1	Model
36	48	17	47,5	15,0	32	30	S/511

S/513, S/514

Dimensions in mm
Projection/First angle



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

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Россия +7(495)268-04-70 **Казахстан** +7(7172)727-132 **Киргизия** +996(312)96-26-47

www.norgren.nt-rt.ru | | ner@nt-rt.ru