S/520, S/521, S/522, S/523, S/524, S/532
Heavy duty non-return valves



- Port size: G1/8 ... 1
- Permit free flow of air in one direction only
- Simple, reliable design
- High operating pressure

Technical features

Medium:
Compressed air, filtered, lubricated and non-lubricated

Operation:
Heavy duty non-return valves

Operating pressure:
0,3 ... 16 bar (4 ... 232 psi)

Cracking pressure:
< 0,1 bar (1 psi)

Port sizes:
G1/8 ... G1, 1/8 ... 1 NPT

Mounting:
Line mounted

Ambient/Media temperature:
Standard
-20 ... +80°C max.(-4 ... 176°F)
For high temperature applictions
+150°C (+302°F)
Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).

Materials:
Body: brass
Valve: aluminium
Seals: NBR

Note: FPM Seals for high temperature version

Technical data, standard models

Symbol	Port size	Flow factor C *1)	Cv	Kv *2)	Weight (kg)	Service kit	Model
	G1/8	2,4	0,6	0,51	0,04	QS/520/00	S/520
	G1/4	4,3	1	0,92	0,09	QS/521/00	S/521
	G3/8	10,5	2,6	2,24	0,14	QS/532/00	S/532
	G1/2	17	4,2	3,62	0,21	QS/522/00	S/522
	G3/4	42	10,3	8,95	0,55	QS/523/00	S/523
	G1	55,5	13,6	11,8	1,10	QS/524/00	S/524

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

Option selector

★★/5★★

Design	Substitute
Standard	None
High temperature (+150°C)	T
Thread form	**Substitute**
NPT	C
ISO G, parallel	S

Port size	Substitute
1/8"	20
1/4"	21
3/8"	32
1/2"	22
3/4"	23
1"	24

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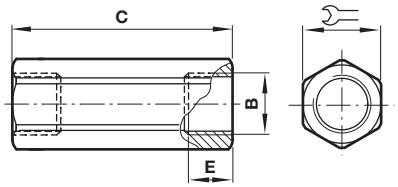
Dimensions

Dimensions in mm
Projection/First angle



B	C	B	E		Model
G1/8	43	1/8	10	14	S/520
G1/4	48	1/4	11	19	S/521
G3/8	62	3/8	13	22	S/532
G1/2	76	1/2	17	27	S/522
G3/4	92	3/4	18	36	S/523
G1	124	1	25	49	S/524

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 features/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
IMI Precision Engineering, 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.

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