

# S/520, S/521, S/522, S/523, S/524, S/532

## Heavy duty non-return valves

### G 1/8 ... G 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 (4,35 ... 232 psi)

##### Cracking pressure:

< 0,1 bar (1,45 psi)

##### Port sizes:

G1/8 ... G1, 1/8 ... 1 NPT

##### Mounting:

Line mounted

##### Fluid/Ambient temperature:

-20 ... +80°C max. (-4 ... +176°F max.)

Air supply must be dry enough

to avoid ice formation at

temperatures below +2°C (+35°F)

150°C (302°F) maximum

For high temperature applications

##### Materials

Body: brass

Valve: aluminium

Seals: nitrile rubber

Note: FKM Seals for high temperature version

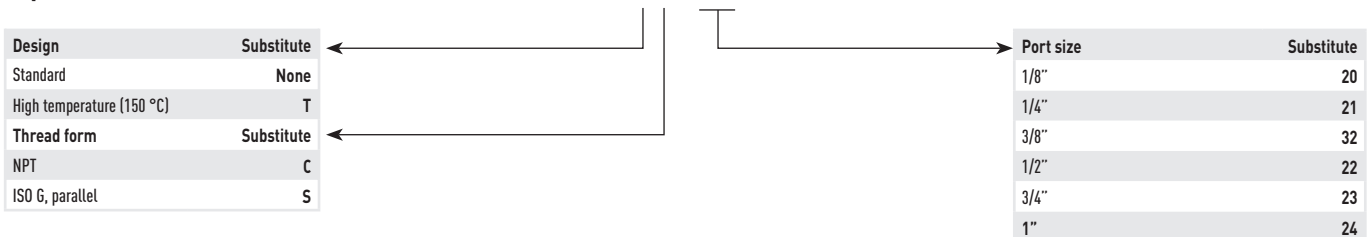
#### Technical data, standard models

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<sup>3</sup>/(s.bar)

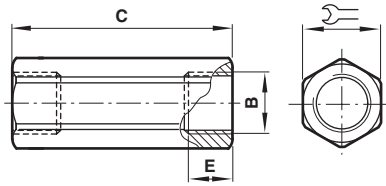
\*2) Measured in m<sup>3</sup>/h


#### Options selector



**Dimensions**

Dimensions shown in mm



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**«.

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 pneumatic 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.