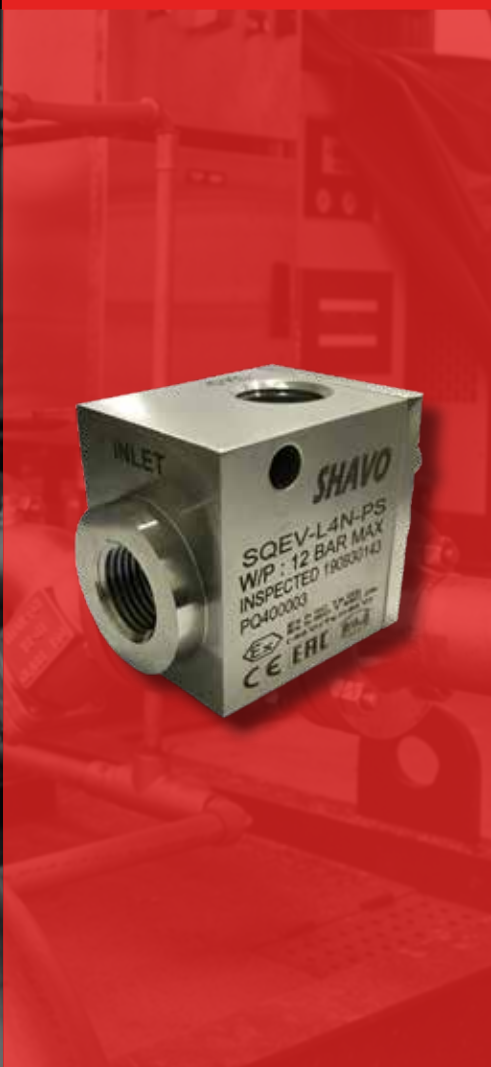
PART HUNTER

QUICK EXHAUST VALVE MODEL SQEV BROCHURE



Quick Exhaust Valve Model sQEV

FEATURES

- Quick Exhaust Valve having simple, compact design and constructions that grants for reliability in operations.
- Enables air to be exhausted quickly from air reservoirs and cylinders allowing higher cylinder speed to be achieved.
- Specially designed for severe environments.
- Applications include marine environments, oil and gas production, chemicals and food processing, medical analysis, corrosive atmosphere etc.
- Can be used in every position, but for a prompt fluid discharge it is suggested to connect them as near as possible to the cylinder.
- CE, ATEX, EAC Ex (CUTR 12), EAC(CUTR 10) approved.
- SIL3 capable as per IEC 61508.
- All External parts are NACE MR 0175* approved.

(*National Association of Corrosion Engineers MR-0175 defines requirements for sulphide stress cracking resistant materials used in oilwells and corrosive environments).

Quick Exhaust Valve Model sQEV

PARAMETERS	SPECIFICATIONS
Fluid / Operating Media	Compressed Air Inert Gases, Sweet (Natural) gas Gases - Filtered lubricated or non-lubricated Liquids - Low pressure hydraulic, mineral oil or water
Pipe size/ Connections	1/4”,3/8”,1/2”, 3/4”, 1”.
Pipe Thread	NPT - Standard BSPT, BSP - Optional
Max. Working Pressure	12 bar (174 psi)
Material of Construction Body, cover, bush Fastners Seals, disc (Elastomers)	 SS 316L (NACE MR0175 compliance) SS 316 Low temp.Nitrile(LNBR) - Std.
Operating Temperature Range(ambient) For Elastomersl	Low temperature Nitrile : -60°C to +80°C (Std)
(Supply to outlet) Standard Nominal Flow rate at 6 (85 psi) supply pressure and1bar (14.5 psi) pressure drop (differential)	1/4”(high flow) - 46 scfm (1290 slpm) 3/8”(high flow) - 64 scfm (1810 slpm) 1/2”(high flow) - 135 scfm (3810 slpm) 3/4”(high flow) - 160 scfm (4520 slpm) 1”(high flow) - 274 scfm (7700 slpm) 1/2”(std.flow) - 90 scfm (2549 slpm) 1”(std.flow) - 285 scfm (8069 slpm)
(Outlet to Exhaust)Standard Nominal Flow rate at 6 (85 psi) supply pressure and1bar (14.5 psi) pressure drop (differential)	1/4”(high flow) - 98 scfm (2780 slpm) 3/8”(high flow) - 135 scfm (3810 slpm) 1/ 2”(high flow) - 194 scfm (5490 slpm) 3/4”(high flow) - 228 scfm (6460 slpm) 1”(high flow) - 388 scfm (11000 slpm) 1/2”(std.flow) - 150 scfm (4247 slpm) 1”(std.flow) - 348 scfm (9840 slpm)
CV Value	Size Supply to Outlet Outlet to Exhaust 1/4”(high flow) 1.3 2.8 3/8”(high flow) 1.8 3.8 1/2”(highflow) 3.8 5.5 3/4”(high flow) 4.5 6.5 1”(high flow) 7.8 11.0 1/2”(std. flow) 2.59 4.31 1”(std. flow) 8.2 10.0
Weight	1/4”(high flow) 0.324 kg. 3/8”(high flow) 0.471 kg. 1/2”(high flow) 0.772 kg. 3/4”(high flow) 1.090 kgs. 1” (high flow) 3.553 kgs. 1/2”(std. flow) 0.586 kg. 1” (std. flow) 1.400 kgs.

Note : 1) Fastners will n o t h a v e N A C E M R0175 compliance.
2) Internal ‘wetted parts’ will have NACE MR0175 compliance.

SQEV (1/4”, 3/8”, 1/2”, 3/4”, 1”)

Option Selector

Sample Model Number → **S Q E V - L 2 N - X X X - S - X X X**

Position → 0 1 2 3 - 4 5 6 - 7 8 9 - 10 - 11 12 13

0

S = Shavo

1 2 3 Product Description

QEV = Quick Exhaust Valve

4 Elastomer Type

L = Low Temperature Nitrile (LNBR)

5 Port Size

2 = 1/4”
3 = 3/8”
4 = 1/2”
6 = 3/4”
8 = 1”

6 Thread type

	Inet	Signal	Exhaust
N	NPT	NPT	NPT
[B]	BSPT	BSPT	BSPT
[G]	BSP	BSP	BSP

SQEV (1/4”, 3/8”, 1/2”, 3/4”, 1”)

7	8	9	Test / Approval
A	0	0	ATEX
A	0	1	UKEX
A	0	2	UKCA
A	0	3	ATEX, UKEX, EAC Ex,UKCA
A	0	4	ATEX, UKEX, EAC Ex
A	0	5	ATEX, UKEX, UKCA
A	0	6	ATEX, UKEX, EAC Ex
B	0	0	ATEX, CE
B	0	1	ATEX, CE, UKEX, EAC Ex, UKCA
B	0	2	ATEX, CE, UKEX, EAC Ex
B	0	3	ATEX, CE, UKEX, UKCA
B	0	4	ATEX, CE, UKCA, EAC Ex
B	0	5	ATEX, CE, EAC Ex
C	0	0	CE
C	0	1	CE, UKEX, EAC Ex, UKCA
C	0	2	CE, UKEX, EAC Ex
C	0	3	CE, UKEX, UKCA
C	0	4	CE, EAC Ex, UKCA
C	0	5	CE, EAC Ex
D	0	0	ATEX, EAC
D	0	1	ATEX, EAC, UKEX, EAC Ex, UKCA
D	0	2	ATEX, EAC, UKEX, EAC Ex
D	0	3	ATEX, EAC, UKEX, UKCA
D	0	4	ATEX, EAC, EAC Ex, UKCA
E	0	0	EAC
E	0	1	EAC, UKEX, EAC Ex, UKCA
E	0	2	EAC, UKEX, EAC Ex
E	0	3	EAC, UKEX, UKCA
E	0	4	EAC, EAC Ex, UKCA
F	0	0	ATEX, SIL3
F	0	1	ATEX, SIL3, UKEX, EAC Ex, UKCA
F	0	2	ATEX, SIL3, UKEX, EAC Ex
F	0	3	ATEX, SIL3, UKEX, UKCA
F	0	4	ATEX, SIL3, EAC Ex, UKCA
F	0	5	ATEX, SIL3, EAC Ex
G	0	0	CE, EAC
G	0	1	CE, EAC, UKEX, EAC Ex, UKCA
G	0	2	CE, EAC, UKEX, EAC Ex
G	0	3	CE, EAC, UKEX, UKCA
G	0	4	CE, EAC, EAC Ex, UKCA
H	0	0	CE, SIL3
H	0	1	CE, SIL3, UKEX, EAC Ex, UKCA
H	0	2	CE, SIL3, UKEX, EAC Ex
H	0	3	CE, SIL3, UKEX, UKCA
H	0	4	CE, SIL3, EAC Ex, UKCA
H	0	5	CE, SIL3, EAC Ex
J	0	0	EAC, SIL3
J	0	1	EAC, SIL3, UKEX, EAC Ex, UKCA
J	0	2	EAC, SIL3, UKEX, EAC Ex
J	0	3	EAC, SIL3, UKEX, UKCA
J	0	4	EAC, SIL3, EAC Ex, UKCA
K	0	0	CE, EAC, SIL3

SQEV (1/4”, 3/8”, 1/2”, 3/4”, 1”)

K	0	1	CE, EAC, SIL3, UKEX, EAC Ex, UKCA
K	0	2	CE, EAC, SIL3, UKEX, UKCA
K	0	3	CE, EAC, SIL3, UKEX, EAC Ex
K	0	4	CE, EAC, SIL3, EAC Ex, UKCA
L	0	0	ATEX, EAC, SIL3
L	0	1	ATEX, EAC, SIL3, UKEX, EAC Ex, UKCA
L	0	2	ATEX, EAC, SIL3, UKEX, EAC Ex
L	0	3	ATEX, EAC, SIL3, UKEX, UKCA
L	0	4	ATEX, EAC, SIL3, EAC Ex, UKCA
M	0	0	ATEX, CE, SIL3
M	0	1	ATEX, CE, SIL3, UKEX, EAC Ex, UKCA
M	0	2	ATEX, CE, SIL3, UKEX, EAC Ex
M	0	3	ATEX, CE, SIL3, UKEX, UKCA
M	0	4	ATEX, CE, SIL3, EAC Ex, UKCA
N	0	0	ATEX, CE, EAC
N	0	1	ATEX, CE, EAC, UKEX, EAC Ex, UKCA
N	0	2	ATEX, CE, EAC, UKEX, EAC Ex
N	0	3	ATEX, CE, EAC, UKEX, UKCA
N	0	4	ATEX, CE, EAC, EAC Ex, UKCA
[O]	[0]	[0]	Other customer special requirement if Any
P	0	0	ATEX, CE, EAC, SIL3
P	0	1	ATEX, CE, EAC, SIL3, UKEX, EAC Ex, UKCA
P	0	2	ATEX, CE, EAC, SIL3, UKEX, EAC Ex
P	0	3	ATEX, CE, EAC, SIL3, UKEX, UKCA
P	0	4	ATEX, CE, EAC, SIL3, EAC Ex, UKCA
Q	0	0	ATEX, EAC Ex
R	0	0	EAC Ex
R	0	1	EAC Ex, UKEX, UKCA
R	0	2	EAC Ex, UKCA
S	0	0	SIL3
S	0	1	SIL3, UKEX, EAC Ex, UKCA
S	0	2	SIL3, UKEX, EAC Ex
S	0	3	SIL3, UKEX, UKCA
S	0	4	SIL3, EAC Ex, UKCA
V	0	0	ATEX, CE, SIL3, EAC Ex
V	0	1	ATEX, CE, SIL3, EAC Ex, UKEX, UKCA
V	0	2	ATEX, CE, SIL3, EAC Ex, UKEX
V	0	3	ATEX, CE, SIL3, EAC Ex, UKCA
X	X	X	STANDARD UNITS WITHOUT ANY CERTIFICATE / APPROVAL
Y	0	0	ATEX, SIL3, EACEx
y	0	1	ATEX, SIL3, EACEx, UKEX, UKCA
Y	0	2	ATEX, SIL3, EAC Ex, UKEX
Y	0	3	ATEX, SIL3, EACEx, UKCA
Z	0	1	CE, SIL3, EAC Ex, UKEX, UKCA
Z	0	2	CE, SIL3, EAC Ex, UKEX
Z	0	3	CE, SIL3, EAC Ex, UKCA

SQEV (1/4”, 3/8”, 1/2”, 3/4”, 1”)

10 Material of Construction/ Flow capacity

S = SS316L standard flow version
H = SS316L High flow version

11 12 13 Compliance

X	X	X	Standard Unit Without any Complinace
A	0	1	RoHS 3 Compliance
A	0	2	REACH Compliance
A	0	3	Copper Free (Only Applicable Aluminium Version)
A	0	4	RoHS3, REACH Compliance
A	0	5	RoHS3, REACH, Copper Free (Only Applicable for Aluminium Version)
A	0	6	RoHS3, Copper Free (Only Applicable for Aluminium Version)
A	0	7	REACH, Copper Free (Only Applicable for Aluminium Version)

Note : Option shown in the [ ] bracket are special, Please contact Sales HQ/Manufacturing.

PART HUNTER

Manderlay House
Manderlay Gardens
Emley
West Yorkshire
HD8 9TY

Email: enquiries@part-hunter.co.uk