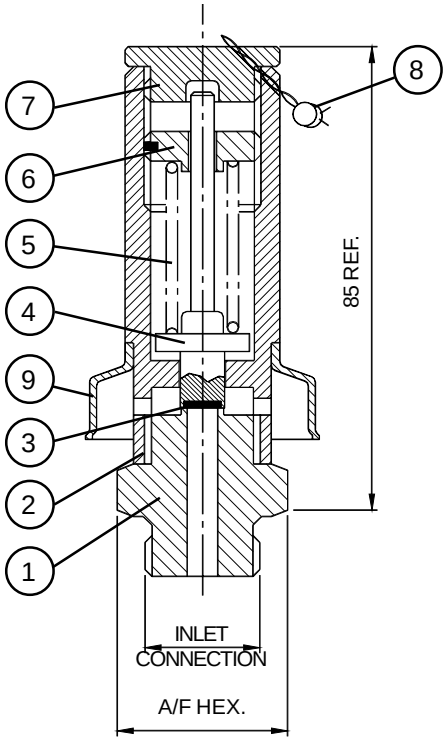


ILLUSTRATED SHOWING
TYPE B
BASIC WIRELOCKED VALVE
WITH DOWNWARD SHROUD

PARTS LIST & MATERIAL SPECIFICATION

1	SEAT	ST.STL.
2	BODY	BRASS
3	DISC SEAL	SUIT APPLICATION
4	PLUNGER	ST.STL.
5	SPRING	ST.STL.
6	ADJUSTER	BRASS
7	CAP	BRASS
8	WIRE & SEAL	ST.STL. & WIRE
9	SHROUD	BRASS

APPROVALS

Designed in accordance with ISO 4126-1:1991
P.E.D. 97/23/EC
Type examination module B, Cert. No. 2002/035/8878/1
Quality management system module D, Cert. No. EDS 0002011/01

TECHNICAL DATA

Relieving pressure	= set pressure +10%
Reseating pressure	= set pressure -15%
Maximum set pressure	= 241.4 Bar.g.
Minimum set pressure	= 48.2 Bar.g.
Flow area	= 10.46mm^2
Inlet bore diameter	= 3.65mm
Derated coefficient of discharge K_{dr}	= 0.68
Minimum lift	= 0.91mm
Temperature range	= -50^O to 180^{O}C

FOR FURTHER TECHNICAL INFORMATION, CONVERSION FACTORS, INSTALLATION AND OPERATING INSTRUCTIONS ETC. SEE TECHNICAL INFORMATION SECTION.

FLOW CHART

-TO CALCULATE INTERMEDIATE FLOWS SEE TECHNICAL INFORMATION SECTION.

SET PRESSURE Bar.g	48.2	50	60	70	80	90	100	150	200	240	241.4
CERTIFIED DISCHARGE CAPACITY IN ACCORDANCE WITH TÜV, AIR AT 0^{O}C AND 1013mbar Normal m^3/h	261.8	271.5	324.8	378.1	431.4	484.7	538	804.6	1071.1	1284.1	1292.1

VALVE SELECTION CHART

INLET CONNECTION	ORDERING CODE	TOP FITTING	A/F HEX DIM'S mm
		B	
G 3/8 (3/8"BSP PARALLEL)	31210	0303	25.6
G 3/4 (3/4"BSP PARALLEL)		4303	33
G 1/2 (1/2" BSP PARALLEL)		1303	25.6
R 1/2 (1/2" BSP TAPER)		2303	
(1/2" NPT)		3303	

Seal Material:
Last digit of order code calls up Viton® seal.
When other material is required the last digit changes to:-
1. NITRILE 5. NEOPRENE
3. VITON® 6 ETHYLENE PROPYLENE

Example:
Ordering Code 31210 1303 is Basic valve with 1/2"BSP parallel inlet connection, Viton® seal and no easing gear wirelocked with downward facing shroud.

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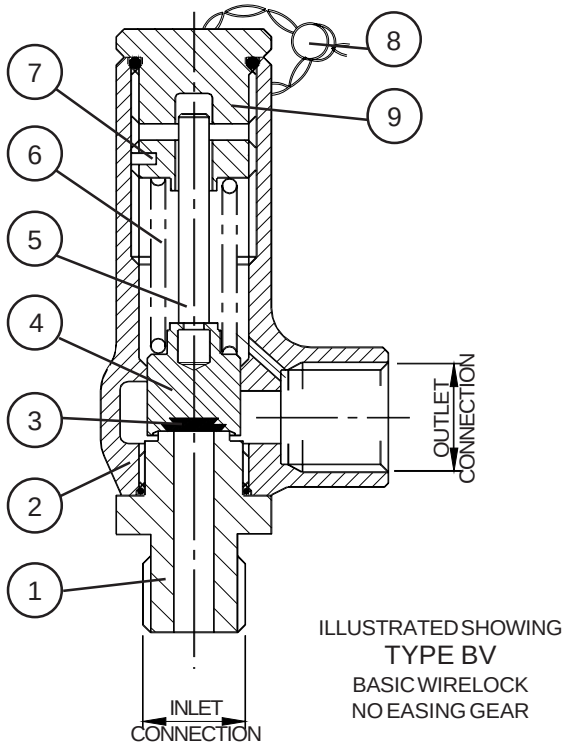
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1/8" Nom. Bore BRASS CONSTRUCTION DIRECT SPRING LOADED ATMOSPHERIC DISCHARGE SAFETY VALVE FOR COMPRESSED AIR OR GASES

ATMOSPHERIC DISCHARGE
1/8" NOM. BORE

TYPE 31210

EDITION A. 23.03.04
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ILLUSTRATED SHOWING
TYPE BV
BASIC WIRELOCK
NO EASING GEAR

PARTS LIST & MATERIAL SPECIFICATION

		33110	34110	34410
1	SEAT	ST.STL.		ST.STL. 316
2	BODY	BRASS	ST. STL.	ST.STL. 316
3	DISK SEAL	TO SUIT APPLICATION		
4	PLUNGER	ST.STL.		ST.STL. 316
5	SPINDLE	ST.STL.		ST.STL. 316
6	SPRING	ST.STL.		
7	ADJUSTER	BRASS	ST.STL.	ST.STL. 316
8	WIRELOCKING	ST.STL. & LEAD		
9	CAP	BRASS	ST.STL.	ST.STL. 316

APPROVALS

P.E.D. 97/23/EC
Type examination module B, Cert. No. 2002/037/8878/1
Quality management system module D, Cert. No. EDS 0002011/01
Designed in accordance with ISO 4126-1:1991 & BS 6759:1984, but not approved.

TECHNICAL DATA

Relieving pressure = Set pressure +10%
Reseating pressure = Set pressure -10%
Maximum set pressure = 241 Bar.g
Minimum set pressure = 48 Bar.g
Flow area = 10.52 mm²
Inlet bore diameter = 0.144" (3.66mm)
Derated coefficient of discharge in accordance with BS, K_{dr} AIR = 0.73,
Temperature range = -50°C to 200°C subject to seal material.

SHEET 1 OF 2 SHEETS

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1/8" Nominal Bore
BRASS CONSTRUCTION DIRECT SPRING
LOADED DISCHARGE SAFETY VALVE
FOR COMPRESSED AIR OR GASES

ENCLOSED DISCHARGE
1/8" NOMINAL BORE
TYPE 33110
TYPE 34110
TYPE 34410

EDITION D. 29.01.08
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FLOW CHART

SET PRESSURE bar.g	48	49	50	51	52	53	54	55	100	120	200	241
RATED DISCHARGE CAPACITY IN ACCORDANCE WITH BS 6759, AIR AT 15^0C AND 1013 mbar Std.Litres/s	79	81	83	84	86	87	89	90	93	111	326	393

VALVE SELECTION CHART

INLET CONNECTION	OUTLET CONNECTION	ORDERING CODE	TOP FITTING CODE BV	ORDERING CODE	TOP FITTING CODE BV
G 3/8 (3/8" BSP PARALLEL)	G 3/8 (3/8" BSP PARALLEL)	33110 34110	0201	34410	-
G 3/8 (3/8" BSP PARALLEL)	G 1/2 (1/2" BSP PARALLEL)		2202		-
G 1/2 (1/2" BSP PARALLEL)	G 1/2 (1/2" BSP PARALLEL)		3202		3201

Example:
Ordering code 33110 0201 is a 33110 basic valve with 3/8" BSP inlet and outlet connections, no easing gear, wirelocked.

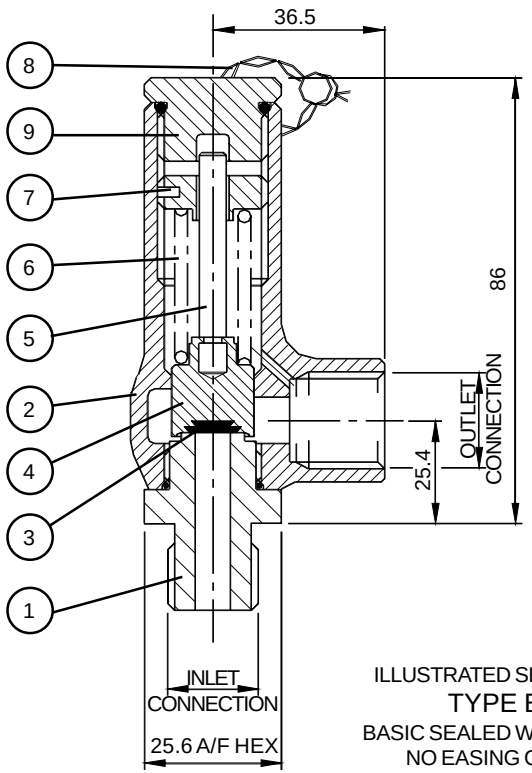
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1/8" Nominal Bore
BRASS CONSTRUCTION DIRECT SPRING LOADED DISCHARGE SAFETY VALVE FOR COMPRESSED AIR OR GASES

ENCLOSED DISCHARGE
1/8" NOMINAL BORE
TYPE 33110
TYPE 34110
TYPE 34410

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ILLUSTRATED SHOWING
TYPE B
BASIC SEALED WIRELOCK
NO EASING GEAR

PARTS LIST & MATERIAL SPECIFICATION

		33020	34020
1	SEAT	ST.STL.	
2	BODY	BRASS	ST.STL.
3	DISC SEAL	TO SUIT APPLICATION	
4	PLUNGER	ST.STL.	
5	SPINDLE	ST.STL.	
6	SPRING	ST.STL.	
7	ADJUSTER	BRASS	ST.STL.
8	WIRE & SEAL	ST.STL. & LEAD	
9	CAP	BRASS	ST.STL.

APPROVALS

P.E.D. 97/23/EC
Type examination module B, Cert. No. 2002/036/8878/1
Quality management system module D, Cert. No. EDS 0002011/01
Designed in accordance with ISO 4126-1:1991.

TECHNICAL DATA

Relieving pressure	= Set pressure + 10%
Reseating pressure	= Set pressure - 15%
Maximum set pressure	= 33020 / 34020 = 104 Bar.g
Minimum set pressure	= 33020 / 34020 = 55 Bar.g
Flow area	= 40.04 mm²
Inlet bore diameter	= 0.281" (7.14mm)
Derated coefficient of discharge, K_{dr} AIR	= 0.67

Temperature range = -50°C to 200°C subject to seal material.

FLOW CHART

- TO CALCULATE INTERMEDIATE FLOWS SEE TECHNICAL INFORMATION SECTION.

SET PRESSURE Bar.g	55	60	65	70	75	80	85	90	95	100	104
RATED DISCHARGE CAPACITY IN ACCORDANCE WITH BS 6759, AIR AT 15°C AND 1013 mbar Std.Litres/s	317	345	374	402	431	459	487	516	544	572	595

VALVE SELECTION CHART

STANDARD THREAD SIZES SHOWN, OTHER SIZES MAY BE AVAILABLE.

INLET CONNECTION	OUTLET CONNECTION	TYPE	TOP FITTING CODE
			B
G 3/8 (3/8" BSP PARALLEL)	G 1/2 (1/2" BSP PARALLEL)	33020 34020	0201
R 3/8 (3/8" BSP TAPER)	R 1/2 (1/2" BSP TAPER)		0182
G 1/2 (1/2" BSP PARALLEL)	G 1/2 (1/2" BSP PARALLEL)		1201
R 1/2 (1/2" BSP TAPER)	R 1/2 (1/2" BSP TAPER)		2202
1/2" NPT	1/2" NPT		3203

Example:
Ordering code 33020 0201 is a Basic wirelock with 3/8"BSP inlet connection & 1/2"BSP outlet connection.
Seal Materials:
Consult Seetru for full range of available seal materials.

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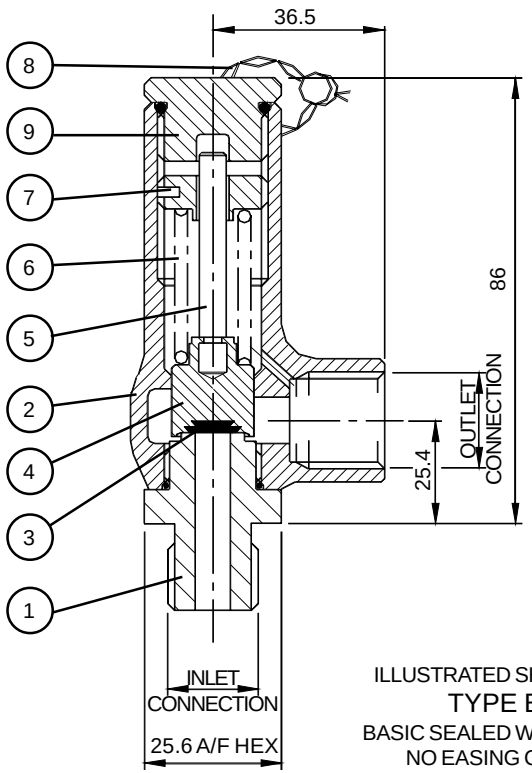
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1/4" Nominal Bore BRASS CONSTRUCTION
DIRECT SPRING LOADED ENCLOSED
DISCHARGE SAFETY VALVE FOR
COMPRESSED AIR OR GASES

ENCLOSED DISCHARGE
1/4" NOMINAL BORE

TYPE 33020 BRASS/ST.STL.
TYPE 34020 ST.STL.

EDITION A. 08.07.03
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ILLUSTRATED SHOWING
TYPE B
BASIC SEALED WIRELOCK
NO EASING GEAR

PARTS LIST & MATERIAL SPECIFICATION

		33020	34020
1	SEAT	ST.STL.	
2	BODY	BRASS	ST.STL.
3	DISC SEAL	TO SUIT APPLICATION	
4	PLUNGER	ST.STL.	
5	SPINDLE	ST.STL.	
6	SPRING	ST.STL.	
7	ADJUSTER	BRASS	ST.STL.
8	WIRE & SEAL	ST.STL. & LEAD	
9	CAP	BRASS	ST.STL.

APPROVALS

P.E.D. 97/23/EC
Type examination module B, Cert. No. 2002/036/8878/1
Quality management system module D, Cert. No. EDS 0002011/01
Designed in accordance with ISO 4126-1:1991.

TECHNICAL DATA

Relieving pressure	= Set pressure + 10%
Reseating pressure	= Set pressure - 15%
Maximum set pressure	= 33020 / 34020 = 104 Bar.g
Minimum set pressure	= 33020 / 34020 = 55 Bar.g
Flow area	= 40.04 mm²
Inlet bore diameter	= 0.281" (7.14mm)
Derated coefficient of discharge, K_{dr} AIR	= 0.67

Temperature range = -50°C to 200°C subject to seal material.

FLOW CHART

- TO CALCULATE INTERMEDIATE FLOWS SEE TECHNICAL INFORMATION SECTION.

SET PRESSURE Bar.g	55	60	65	70	75	80	85	90	95	100	104
RATED DISCHARGE CAPACITY IN ACCORDANCE WITH BS 6759, AIR AT 15°C AND 1013 mbar Std.Litres/s	317	345	374	402	431	459	487	516	544	572	595

VALVE SELECTION CHART

STANDARD THREAD SIZES SHOWN, OTHER SIZES MAY BE AVAILABLE.

INLET CONNECTION	OUTLET CONNECTION	TYPE	TOP FITTING CODE
			B
G 3/8 (3/8" BSP PARALLEL)	G 1/2 (1/2" BSP PARALLEL)	33020 34020	0201
R 3/8 (3/8" BSP TAPER)	R 1/2 (1/2" BSP TAPER)		0182
G 1/2 (1/2" BSP PARALLEL)	G 1/2 (1/2" BSP PARALLEL)		1201
R 1/2 (1/2" BSP TAPER)	R 1/2 (1/2" BSP TAPER)		2202
1/2" NPT	1/2" NPT		3203

Example:
Ordering code 33020 0201 is a Basic wirelock with 3/8"BSP inlet connection & 1/2"BSP outlet connection.
Seal Materials:
Consult Seetru for full range of available seal materials.

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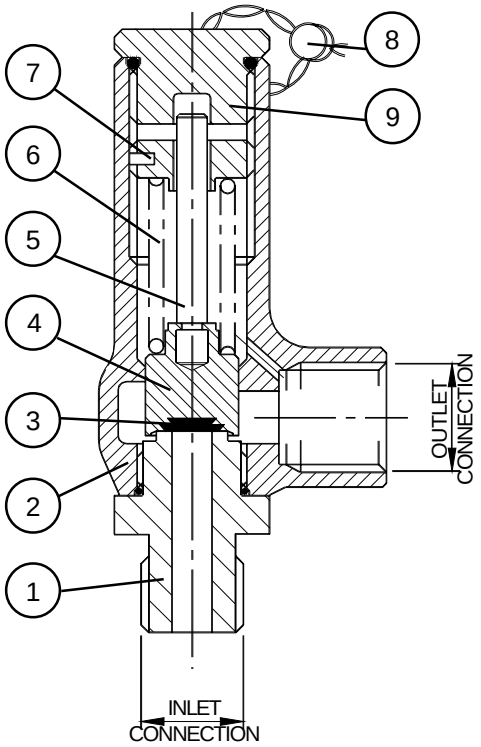
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1/4" Nominal Bore BRASS CONSTRUCTION
DIRECT SPRING LOADED ENCLOSED
DISCHARGE SAFETY VALVE FOR
COMPRESSED AIR OR GASES

ENCLOSED DISCHARGE
1/4" NOMINAL BORE

TYPE 33020 BRASS/ST.STL.
TYPE 34020 ST.STL.

EDITION A. 08.07.03
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ILLUSTRATED SHOWING
TYPE BV
BASIC WIRELOCK
NO EASING GEAR

PARTS LIST & MATERIAL SPECIFICATION

		33110	34110
1	SEAT	ST.STL.	
2	BODY	BRASS	ST. STL.
3	DISK SEAL	TO SUIT APPLICATION	
4	PLUNGER	ST.STL.	
5	SPINDLE	ST.STL.	
6	SPRING	ST.STL.	
7	ADJUSTER	BRASS	ST.STL.
8	WIRELOCKING	ST.STL. & LEAD	
9	CAP	BRASS	ST.STL.

APPROVALS

P.E.D. 97/23/EC
Type examination module B, Cert. No. 2002/037/8878/1
Quality management system module D, Cert. No. EDS 0002011/01
Designed in accordance with ISO 4126-1:1991 & BS 6759:1984, but not approved.

TECHNICAL DATA

Relieving pressure = Set pressure +10%
Reseating pressure = Set pressure -10%
Maximum set pressure = 241 Bar.g
Minimum set pressure = 48 Bar.g
Flow area = 10.52 mm²
Inlet bore diameter = 0.144" (3.66mm)
Derated coefficient of discharge in accordance with BS, K_{dr} AIR = 0.73,
Temperature range = -50°C to 200°C subject to seal material.

FLOW CHART

SET PRESSURE bar.g	48	49	50	51	52	53	54	55	100	120	200	241
RATED DISCHARGE CAPACITY IN ACCORDANCE WITH BS 6759, AIR AT 15°C AND 1013 mbar Std.Litres/s	79	81	83	84	86	87	89	90	93	111	326	393

VALVE SELECTION CHART

INLET CONNECTION	OUTLET CONNECTION	ORDERING CODE	TOP FITTING CODE
			BV
G 3/8 (3/8" BSP PARALLEL)	G 3/8 (3/8" BSP PARALLEL)	33110 34110	0201
G 3/8 (3/8" BSP PARALLEL)	G 1/2 (1/2" BSP PARALLEL)		2202
G 1/2 (1/2" BSP PARALLEL)	G 1/2 (1/2" BSP PARALLEL)		3202

Example:
Ordering code 33110 0201 is a 33110 basic valve with 3/8" BSP inlet and outlet connections, no easing gear, wirelocked.

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1/8" Nominal Bore
BRASS CONSTRUCTION DIRECT SPRING LOADED DISCHARGE SAFETY VALVE FOR COMPRESSED AIR OR GASES

ENCLOSED DISCHARGE
1/8" NOMINAL BORE

TYPE 33110
TYPE 34110

EDITION C. 04.06.03
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