



PARTS LIST & MATERIAL SPECIFICATION

	34610	35610
1	INLET SEAT ST.STL. BS 970 316S31	
2	SEAL RETAINER ST.STL. BS 970 316S31	
3	TUTCHTITE SEAL P.T.F.E.	
4	PLUNGER ST.STL. BS 970 316S31	BRASS BS 2874 CZ132
5	BODY ST.STL. BS 3100 316C16 GUNMETAL	
6	SPRING ST.STL. BS 2056 302S26	
7	SPINDLE ST.STL. BS 970 431S29	
8	ADJUSTER ST.STL. BS 970 316S31	BRASS BS 2874 CZ121
9	CAP ST.STL. BS 970 316S31 BRASS BS 2874 CZ121	
10	WIRE & SEAL ST.STL. & LEAD	
11	O'RING P.T.F.E.	
12	COVER ST.STL. BS 970 316S31	BRASS BS 2874 CZ121

APPROVALS

Ad-Merkblatt A2: (TÜV GERMANY), Ref- TÜV.SV.08-728.9.5.D/G. α_w .p
 Materials meet the requirement of BAM (Germany) for Oxygen Service.
 P.E.D. 97/23/EC
 Type examination module B, Cert. No. 01 202 111-B-00016
 Quality management system module D, Cert. No. EDS 0002011/01
 Designed in accordance with BS 6759 & BS EN ISO 4126-1.

TECHNICAL DATA

Relieving pressure	= Set pressure +10% (0.1 Bar.g. below 1.0 Bar.g.)
Reseating pressure	= Set pressure -10% (0.3 Bar.g. below 3.0 Bar.g.)
Maximum set pressure	= 30.76 Bar.g.
Minimum set pressure	= 0.83 Bar.g.
Flow area	= 70.9mm ²
Inlet bore diameter	= 9.5mm
TÜV derated coefficient of discharge α_w	= 0.7 (3.0 to 30.8 Bar.g.), $\alpha_w = 0.6$ (0.8 to 3.0 Bar.g.)
Temperature range	= -196°C to 50°C
Minimum lift	= 2.4mm
Maximum permissible built up back pressure	= 10% of set pressure at or below which flow is not reduced.
Stable operation on flows down to	50% of valve rated capacity.

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

FOR CRYOGENIC SERVICE

- DESIGNED FOR THE PROTECTION OF PIPING, EQUIPMENT AND CRYOGENIC STORAGE TANKS AGAINST OVERPRESSURE CAUSED BY THE EXPANSION OF LIQUEFIED GASES.
- OUTLET PIPEWORK SHOULD BE ARRANGED TO PREVENT THE INGRESS OF MOISTURE WHICH MAY FREEZE AND AFFECT THE CORRECT OPERATION OF THE VALVE. VALVES CAN BE SUPPLIED WITH SUITABLE POSITIONED DRAIN HOLES TO HELP PREVENT THIS OCCURRING.
- CAN BE SUPPLIED CLEANED DEGREASED AND SEALED TO APPROPRIATE SPECIFICATIONS.

SAFETY

- IT IS STRONGLY RECOMMENDED THAT ALL OPERATORS OF CRYOGENIC EQUIPMENT FAMILIARISE THEMSELVES FULLY WITH ALL SAFETY ASPECTS OF HANDLING LIQUIDS AND GASES.



SEETRU LIMITED

ALBION DOCKSIDE WORKS, BRISTOL. BS1 6UT
 TELEPHONE +44 (0) 117 927 9204, FAX +44 (0) 117 929 8193
 www.seetru.com enquires@seetru.com

10mm Nominal Bore P.T.F.E SEAL
 ENCLOSED DISCHARGE SAFETY VALVE FOR
 COMPRESSED AIR, GASES & LIQUEFIED GASES.
 TYPE 636107

ENCLOSED DISCHARGE
 10mm NOMINAL BORE SERIES M/2
 P.T.F.E. SEALED
 TYPE 34610 ST.STL.
 TYPE 35610 BRASS/ST.STL.

SHEET 1 OF 2 SHEETS

FLOW CHART (P.E.D.)

TO CALCULATE INTERMEDIATE FLOWS SEE TECHNICAL INFORMATION SECTION

SET PRESSURE Bar.g.	0.8	1	2	3	4	5	6	7	8	9	10	15	20	25	30	30.76
RATED DISCHARGE * CAPACITY IN ACCORDANCE WITH BS EN 4126, AIR AT 15°C AND 1013 mbar Std. Litres/s	15	17	26	35	52	62	73	83	94	104	115	167	219	272	324	332
RATED DISCHARGE * CAPACITY IN ACCORDANCE WITH TÜV, AIR AT 0°C AND 1013 mbar Normal m³/h	54.8	61.2	93	125	183	220	257	294.5	331.7	369	406	592	778	964	1149.6	1178

VALVE SELECTION CHART

Standard thread sizes shown, others may be available

INLET CONNECTION	OUTLET CONNECTION	ORDERING CODE	TOP FITTING CODE	
			BV	S
G 1/2 (1/2" BSP PARALLEL)	G 3/4 (3/4" BSP PARALLEL)	34610A 35610A	0477	1277
R 1/2 (1/2" BSP TAPER)			0487	1287
1/2" NPT			0497	1297

Example: Ordering code 34610A 047 7 is ST.STL. construction Basic, with 1/2" BSP parallel inlet connection, 3/4" BSP parallel outlet and wirelocked.



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SHEET 2 OF 2 SHEETS