

**TYPE SL**  
SEALED BASIC  
EASING GEAR

**ALTERNATIVE TOP FITTING**



**TYPE SB**  
SEALED BASIC  
NO EASING GEAR

**PARTS LIST & MATERIAL SPECIFICATION**

ITEM	PART	94610 FLANGE
1	FLANGE	ST.STL.
2	INLET NOZZLE	ST.STL
3	BODY	ST.STL
4	DISC	ST.STL. 4408
5	BALL	ST.STL
6	DISC HOLDER	ST.STL
7	PLUNGER	ST.STL
8	SPINDLE	ST.STL
9	SPRING	ST.STL
10	ADJUSTER	ST.STL
11	OUTLET SPIGOT	ST.STL
12	FLANGE	ST.STL
13	O'RING	TO SUIT APPLICATION
14	CAP	ST.STL
15	WIRE & LEAD SEAL	ST.STL & LEAD

**APPROVALS**

P.E.D. 2014 /68 /EU

Type examination module B, Cert No. 01 202 642-B-10017

Quality Management system, module D, Cert. No. COV0812369 /01

Designed in accordance with EN ISO 4126-1

TÜV Approved:

TÜV.SV.\*\*-1016.10.D/G.0,83.p. for 3-28 bar.g. Below 3 bar.g see ' $\alpha_w$  vs Set Pressure' chart.

**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 = 28 bar.g

Minimum set pressure = 0.3 bar.g

Flow area = 78.5mm<sup>2</sup>

Inlet bore diameter = 10mm

TÜV allotted outflow coefficient  $\alpha_w$  = 0.83

TÜV allotted outflow coefficient  $\alpha_w$  = Below 3.0 bar.g see ' $\alpha_w$  vs set pressure' chart.

Leak tightness at 90% set pressure to API 527 and in accordance with EN ISO 4126-1

Greater leak tightness may be achieved on request.

Maximum temperature = 250°C Note: For sealed top fittings, max. temp. depends on seal material.

Minimum temperature = -50°C subject to material specification.

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.

APPROXIMATE WEIGHT  $\frac{3}{4}$ " x 1" = 3kg

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



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FLOW CHART  
 TO CALCULATE INTERMEDIATE FLOWS, SEE TECHNICAL INFORMATION SECTION.  
 FOR GREATER FLOWS, REFER TO 15mm BORE TYPE 94615 DATA SHEET.

SET PRESSURE bar.g	0.3	0.5	1	2	3	4	5	6	7	8	9	10	15	20	25	28
RATED DISCHARGE * CAPACITY IN ACCORDANCE WITH EN ISO 4126-1, AIR AT 15°C & 1013mbar std. Litres/s	11.7	15.8	23.7	31.1	54	67	81	95	109	122	136	150	219	288	357	398
RATED DISCHARGE * CAPACITY IN ACCORDANCE WITH EN ISO 4126-1, STEAM kg/h	31.4	42.9	64.8	104.4	147	185	222	260	298	335	373	411	599	787	975	1089
RATED DISCHARGE * CAPACITY IN ACCORDANCE WITH TUV, AIR AT 0°C & 1013mbar m³/h	39.1	56.3	83.5	134.8	191	240	289	338	386	435	484	533	777	1021	1266	1412
RATED DISCHARGE * CAPACITY IN ACCORDANCE WITH TUV, STEAM kg/h	32.5	44.5	66.1	106.2	149	186	222	259	295	332	368	405	585	765	947	1055

VALVE SELECTION CHART  
 FLANGE SIZES SHOWN, OTHER SIZES MAY BE AVAILABLE

INLET FLANGE CONNECTION	OUTLET FLANGE CONNECTION	ORDERING CODE	TOP FITTING CODE	
			SB	SL
ASME 3/4" CL150	1" CL150 1" CL300	94610 G 94610 H	600	700
ASME 3/4" CL300			601	701
ASME 3/4" CL600			602	702
ASME 1" CL150			603	703
ASME 1" CL300			604	704
ASME 1" CL600			605	705
DN20 PN16	DN25 PN25 DN25 PN16 DN25 PN40	94610 M 94610 N 94610 O	606	706
DN20 PN25			607	707
DN20 PN40			608	708
DN25 PN16			609	709
DN25 PN25			610	710
DN25 PN40			611	711

**Example:**

Ordering code 94610 G 700 3 is an all Stainless Steel, Sealed Lever,

**Type SL**, ASME 3/4" CL150 inlet connection, 1" CL150 outlet connection, with Viton® seals.

O-RING SEAL CHART

O-RING MATERIAL	10th DIGIT	MAX. STATIC TEMP.°C	MIN. STATIC TEMP.°C
NITRILE	1	150	-30
VITON	3	250	-20
SILICONE	4	250	-50
NEOPRENE	5	120	-40
E.PROPYLENE	6	150	-40

**NOTE:**

Digits 1 to 6, indicates the required O-ring material dependent on the maximum/minimum static temperature.

**TYPE 94610 VALVES ARE NOT SUITABLE FOR CRYOGENIC SERVICE.**

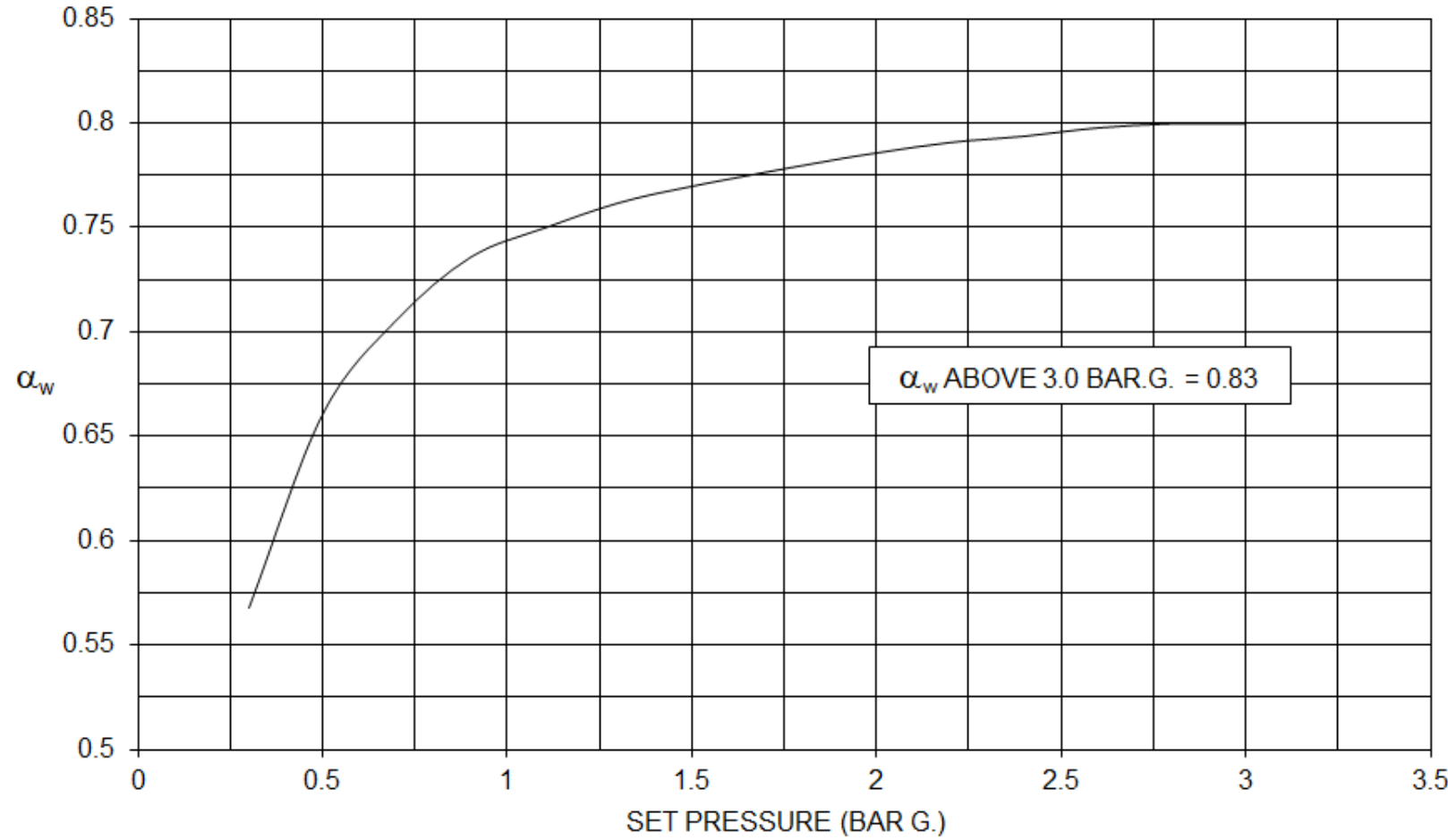


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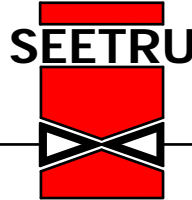
10mm NOMINAL BORE,  
 DIRECT SPRING LOADED ENCLOSED  
 METAL SEAL DISCHARGE SAFETY VALVE, FLANGED  
 FOR COMPRESSED GASES & STEAM

ENCLOSED DISCHARGE  
 10mm NOMINAL BORE  
 FLANGED CONNECTIONS  
 TYPE 94610 ST.STL.

$\alpha_w$  vs SET PRESSURE CHART  
 SEETRU SAFETY RELIEF VALVE 93610 / 94610.  
 0.3 to 3.0 BAR G.



$\alpha_w$  ABOVE 3.0 BAR.G. = 0.83



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SHEET 3 OF 3

10mm NOMINAL BORE,  
 DIRECT SPRING LOADED ENCLOSED  
 METAL SEAL DISCHARGE SAFETY VALVE, FLANGED  
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