



ILLUSTRATED SHOWING
PREFERRED TYPE
TYPE S
SEALED
NO EASING GEAR

Example:
Order code **63610 A 487 8** is Sealed Basic, Type S,
with 1/2" BSP parallel inlet connection, 3/4" BSP
parallel outlet connection with Perfluoroelastomer seal &
wirelocked.
Last digit of ordering code calls up Perfluoroelastomer.

VALVE TYPE OPTIONS:

63610 / 13 / 18 = TUV, B.S. (P.E.D.)
63710 / 13 / 18 = A.S.M.E. & N.B.
63110 / 13 / 18 = A.S.M.E. & N.B., TUV, B.S. (P.E.D.)



SEETRU LIMITED

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

PARTS LIST & MATERIAL SPECIFICATION

		63110 / 63710 / 63610 63113 / 63713 / 63613 63118 / 63718 / 63618
1	INLET SEAT	BRASS BS EN 12164 CW614N
2	SEAL	PERFLUOROELASTOMER
3	PLUNGER	BRASS BS EN 12164 CW602N
4	BODY	BRONZE / GUNMETAL BS EN 1982 CC491K SB-62 C83600
5	SPRING	ST.STL. BS EN 10270-3 1.4310 (302)
6	SPINDLE	ST.STL. BS EN 10088-3 1.4057 (431)
7	ADJUSTER	BRASS BS EN 12164 CW614N
8	CAP	BRASS BS EN 12164 CW614N
9	WIREFLOCKING	ST.STL. & LEAD

VALVE SELECTION CHART

INLET CONNECTION	OUTLET CONNECTION	ORDERING CODE	TOP FITTING CODE
			S
G 1/2 (1/2" BSP PARALLEL)	G 3/4 (3/4" BSP PARALLEL)	63110A 63610A 63710A	4878
R 1/2 (1/2" BSP TAPER)			4888
1/2" NPT	3/4" NPT	63110C 63610C 63710C	4898
G 3/4 (3/4" BSP PARALLEL)	G 1 (1" BSP PARALLEL)	63113A 63613A 63713A	4908
R 3/4 (3/4" BSP TAPER)			4918
3/4" NPT	1" NPT	63113C 63613C 63713C	4928
G 1 (1" BSP PARALLEL)	G 1 1/2 (1 1/2" BSP PARALLEL)	63118A 63618A 63718A	4938
R 1 (1" BSP TAPER)			4948
1" NPT	1 1/2" NPT	63118C 63618C 63718C	4958

APPROVALS

ALL VALVES: Ad-Merkblatt A2 1998: TÜV Designed in accordance with ISO 4126-1:1991.
For 63610 Ref. - TÜV.SV.08-728.9.5.D/G.0.78.p. ISO 4126 - 1991
For 63613 Ref. - TÜV.SV.09-761.13.7.D/G.0.71.p. ISO 4126 - 1991
For 63618 Ref. - TÜV.SV.08-916.17.D/G.0.84.p. ISO 4126 - 1991
P.E.D. 97/23/EC
Type examination module B, Cert. No. 01 202 111-B-00016
Quality management system module D, Cert. No. EDS0002011/01
Meeting the requirements of the A.S.M.E. Boiler & Pressure Vessel Code section VIII for air/gas.
UV Cert. of Authorisation: 35757
Capacities certified by the National Board of Boiler & Pressure Vessel Inspectors.

DIMENSION TABLE

VALVE TYPE	EASING GEAR	DIM 'A'	DIM 'B'				DIM 'C'	DIM 'D'
			(7 TO 33 BAR.G)	(33 TO 55.2 BAR.G)	(7 TO 35 BAR.G)	(35 TO 49 BAR.G)		
63110 63610 63710		40	99	113	-	-	30	28
63113 63613 63713	TYPE 'S' SEALED BASIC	49	-	-	134.5	167.5	33.5	33
63118 63618 63718		71	204				50.5	51

TECHNICAL DATA

PROPERTY	VALVE TYPE		
	63110 63610 63710	63113 63613 63713	63118 63618 63718
Max. set pressure (Bar.g.) *	55.2	49	35
Min. set pressure (Bar.g.)	7	7	5.4
Flow area (mm ²)	70.9	147.4	227
Inlet bore diameter (mm)	9.5	13.7	17
TÜV derated coefficient of discharge (C _w)	0.78	0.71	0.84
Min. % of valve rated capacity for stable flow	50%		
Relieving pressure	set pressure +10%		
Resating pressure	set pressure -10%		
Max. permissible built up back pressure	10% of set pressure at or below which flow is not reduced		
Temperature range	-30°C to 200°C subject to duty		

* OTHER SET PRESSURES ARE AVAILABLE.

SHEET 1 OF 2 SHEETS

10mm/13mm/18mm Nominal Bore
DIRECT SPRING LOADED SAFETY VALVES
ENCLOSED DISCHARGE FOR
REFRIGERANTS

63110, 63610, 63710
63113, 63613, 63713
63118, 63618, 63718
REFRIGERATION

FLOW CHART

- In accordance with TUV Ad-Merkblatt A2 1990.

	TYPE	SET PRESSURE (BAR.G)																
		7	8	9	10	15	20	22	22.1	25	30	33	35	40	45	49	50	55.2
RATED DISCHARGE CAPACITY IN ACCORDANCE WITH TUV, AIR AT 0°C AND 1.013 Bar in (Kg/hr)	63110, 63610, 63710	424.1	476.9	530.8	584.7	852.0	1119.3	1226.0	1231.5	1387.7	1655.0	1814.5	1921.9	2189.4	2457	2671	2724.5	3002.7
	63113, 63613, 63713	802.5	904.8	1006.0	1106.1	1612.1	2118.1	2320.5	2330.4	2624.1	3130.1	3434.8	3637.2	4143.4	4649.7	5054.7	-	-
	63118, 63618, 63718	1459.2	1644.0	1827.7	2012.5	2935.4	3858.3	4226.8	4245.5	4780.1	5703.0	6256.3	6625.9	-	-	-	-	-
RATED DISCHARGE CAPACITY IN ACCORDANCE WITH TUV, AIR AT 0°C AND 1.013 Bar in (lb/min)	63110, 63610, 63710	15.6	17.5	19.5	21.5	31.3	41.1	45.0	45.2	51.0	60.8	66.7	70.3	80.1	89.9	97.7	99.7	109.8
	63113, 63613, 63713	29.5	33.2	36.9	40.6	59.2	77.8	85.2	85.6	96.4	115.0	126.2	133.6	151.6	170.1	184.9	-	-
	63118, 63618, 63718	53.6	60.4	67.1	73.9	107.8	141.8	155.3	156.0	175.6	209.6	229.9	243.5	-	-	-	-	-

FLOW CHART (A.S.M.E.)

	TYPE	SET PRESSURE Psig										
		100	150	200	250	300	400	500	600	700	710	800
RATED DISCHARGE CAPACITY IN ACCORDANCE WITH A.S.M.E., AIR AT 60°F & 14.7psia/scfm	63110, 63610, 63710	213.2	307.3	401.3	495.4	589.4	777.5	965.5	1153.7	1341.8	1360.6	1529.9
	63113, 63613, 63713	432.7	623.6	814.4	1005.3	1196.1	1577.8	1959.5	2341.2	2722.9	2761.1	-
	63118, 63618, 63718	698.3	1006.3	1314.3	1622.3	1930.3	2546.3	3162.3	-	-	-	-
RATED DISCHARGE CAPACITY IN ACCORDANCE WITH A.S.M.E., AIR AT 60°F & 14.7 psia/lb/min	63110, 63610, 63710	16.2	23.4	30.5	37.6	44.8	59.1	73.4	87.7	102.0	103.4	116.3
	63113, 63613, 63713	32.9	47.4	61.9	76.4	90.9	119.9	148.9	177.9	206.9	209.8	-
	63118, 63618, 63718	53.1	76.5	99.9	123.3	146.7	193.5	240.3	-	-	-	-
RATED DISCHARGE CAPACITY IN ACCORDANCE WITH A.S.M.E., AIR AT 60°F & 14.7 psia/Kg/min	63110, 63610, 63710	7.4	10.6	13.8	17.1	20.3	26.8	33.3	39.8	46.3	46.9	52.8
	63113, 63613, 63713	14.9	21.5	28.1	34.7	41.3	54.4	67.6	80.8	93.9	95.3	-
	63118, 63618, 63718	24.1	34.7	45.3	56.0	66.6	87.8	109.1	-	-	-	-



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