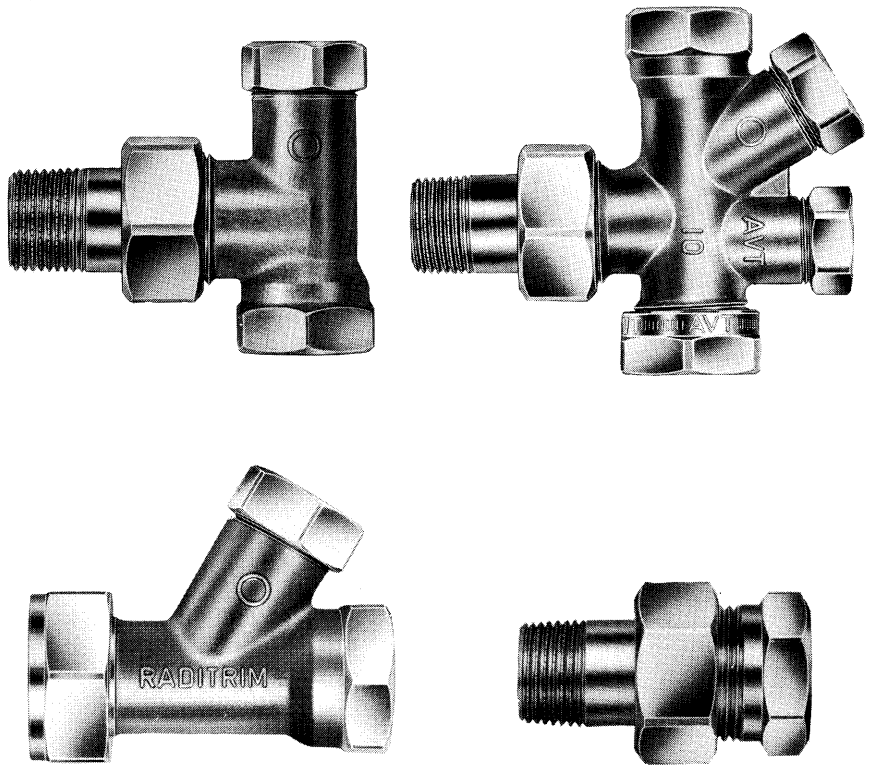


- The lockshield valves which also include RADITRIM and TRV, are intended for use in heating systems where provision for subsequent restriction of the return side is required. There are two connecting possibilities: normal radiator union (nut + tailpiece) or swivelling nut with M22 × 1.5 female thread.
- The restriction arrangement of the valve cone and seat in the valve body are shaped in such a way that very accurate presetting can be obtained.
- In heating systems where thermostatically controlled radiator valves are used on the flow side, considerably improved balance can be obtained by suitable adjustment of return valves on the return side.
- The cone has an O-ring which seals against the seat in the valve body, giving positive sealing against the chamber when presetting and supporting the cone in the position to which it is set.
- Under the cover there is a patented locking ring which prevents the cone from being unintentionally screwed out.
- All types of valves can be connected to smooth tubes by means of the KOMBI compression coupling.



RADITRIM is also:

- Provided with two cones, one for shut-off and one inner cone for presetting — no alteration of presetting taking place should shut-off occur.
- Made of AMETAL® throughout, and can also be used for potable water.

TRV is also:

- Suitable for use where low points occur since it is provided with draining connection (1/2 male thread).
- A replacement for an isolating cock.

Radiator unions without shut-off

- Hot-forged, giving high strength with homogeneous material and exact material thickness.
- Well dimensioned, correctly shaped internal hexagons in the tailpiece, permitting firm tightening in the radiator. (Hexagon for 3/8 = 10 mm, 1/2 = 12 mm and 3/4 = 17 mm)

Type	TA.No
Straight	50 011
Straight with swivel nut	50 482
Angle	50 010
Angle with swivel nut	50 480
TRV, straight	50 056
TRV, angle	50 054
RADITRIM, straight	50 021
RADITRIM, straight with swivel nut	50 022
RADITRIM, angle	50 020
Radiator union, straight	50 015
Radiator union, angle	50 014

TECHNICAL DESCRIPTION

Application: Heating installations. Process lines in factories and other installations for conveying air, oil, paraffin and petrol. RADITRIM can also be used for potable water.

Max. working pressure:

Valves = 1,6 MPa (16 bar)
Unions = 1,0 MPa (10 bar)

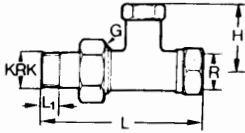
Max. working temperature: 100°C.

Material: Patented locking ring of stainless spring steel. O-ring of high-grade Nitrile rubber. The return valves have valve body of die cast AMETAL® and other parts of drawn brass. RADITRIM is made of AMETAL® throughout. TRV and radiator valves have hot-forged brass body.

Surface treatment: Nickel-plated as standard. Radiator unions; Connection sizes 10 to 20 nickelplated, others yellow-finished.

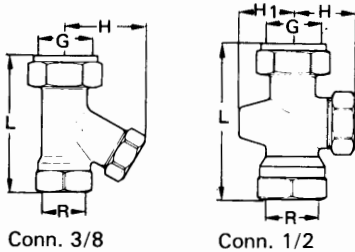
Testing: Each valve is individually tested before despatch, both for seat sealing and overall leak-tightness.

50 011 Straight



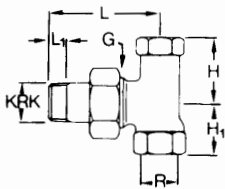
TA.No	Conn.DN	L	L1	G	H	R/KRK	Weight kg
50 011-110	10	75	8	M22 × 1,5	32	3/8	0,16
-115	15	86	10	M26 × 1,5	36	1/2	0,25
-120	20	100	11	M34 × 1,5	41	3/4	0,45

50 482 Straight with swivel nut



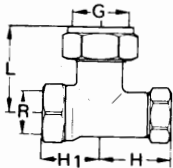
TA.No	Conn.DN	L	G	H	H1	R	Weight kg
50 482-110	10	55	M22 × 1,5	33	—	3/8	0,13
-115	15	63	M22 × 1,5	25	22	1/2	0,18

50 010 Angle



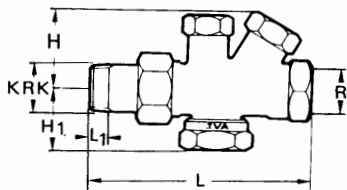
TA.No	Conn.DN	L	L1	G	H	H1	R/KRK	Weight kg
50 010-110	10	48	8	M22 × 1,5	28	22	3/8	0,15
-115	15	56	10	M26 × 1,5	32	26	1/2	0,23
-120	20	65	11	M34 × 1,5	38	30	3/4	0,32

50 480 Angle with swivel nut



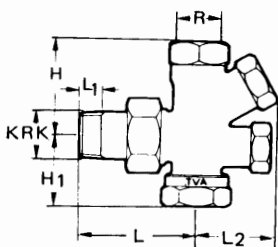
TA.No	Conn.DN	L	G	H	H1	R	Weight kg
50 480-110	10	33	M22 × 1,5	28	22	3/8	0,14

50 056 TRV, straight



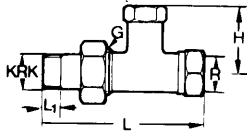
TA.No	Conn.DN	L	L1	H	H1	R/KRK	Weight kg
50 056-110	10	85	8	30	28	3/8	0,24
-115	15	100	11	35	32	1/2	0,38

50 054 TRV, angle



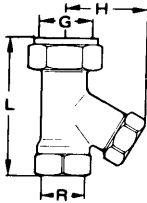
TA.No	Conn.DN	L	L1	L2	H	H1	R/KRK	Weight kg
50 054-110	10	48	8	30	38	28	3/8	0,24
-115	15	56	11	35	45	30	1/2	0,39

50 021 RADITRIM, straight



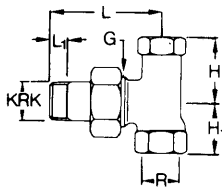
TA.No	Conn.DN	L	L1	G	H	R/KRK	Weight kg
50 021-110	10	75	8	M22 × 1,5	32	3/8	0,16
-115	15	86	10	M26 × 1,5	36	1/2	0,25

50 022 RADITRIM, straight with swivel nut



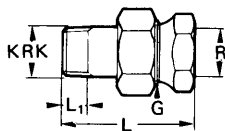
TA.No	Conn.DN	L	G	H	R	Weight kg
50 022-110	10	55	M22 × 1,5	33	3/8	0,13

50 020 RADITRIM, angle



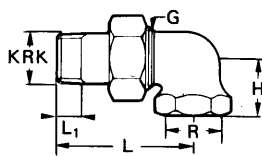
TA.No	Conn.DN	L	L1	G	H	H1	R/KRK	Weight kg
50 020-110	10	48	8	M22 × 1,5	28	22	3/8	0,15
-115	15	56	10	M26 × 1,5	32	26	1/2	0,23

50 015 Radiator unions Straight



TA.No	Conn.DN	L	L1	G	R/KRK	Weight kg
50 015-110	10	46	8	M22 × 1,5	3/8	0,09
-115	15	53	10	M26 × 1,5	1/2	0,14
-120	20	60	11	M34 × 1,5	3/4	0,24
-025	25	67	13	M40 × 2,0	1	0,32
-032	32	74	14	M50 × 2,0	1 1/4	0,55
-040	40	82	14	M55 × 2,0	1 1/2	0,71
-050	50	90	16	M70 × 2,0	2	1,13

50 014 Radiator unions Angle



TA.No	Conn.DN	L	L1	H	G	R/KRK	Weight kg
50 014-110	10	48	8	20	M22 × 1,5	3/8	0,12
-115	15	56	10	24	M26 × 1,5	1/2	0,16
-120	20	65	11	28	M34 × 1,5	3/4	0,28
-025	25	74	13	34	M40 × 2,0	1	0,46
-032	32	83	14	40	M50 × 2,0	1 1/4	0,69
-040	40	94	14	46	M55 × 2,0	1 1/2	1,00
-050	50	115	16	73	M70 × 2,0	2	1,65

All valves can be connected to smooth tubes by means of the KOMBI compression coupling.

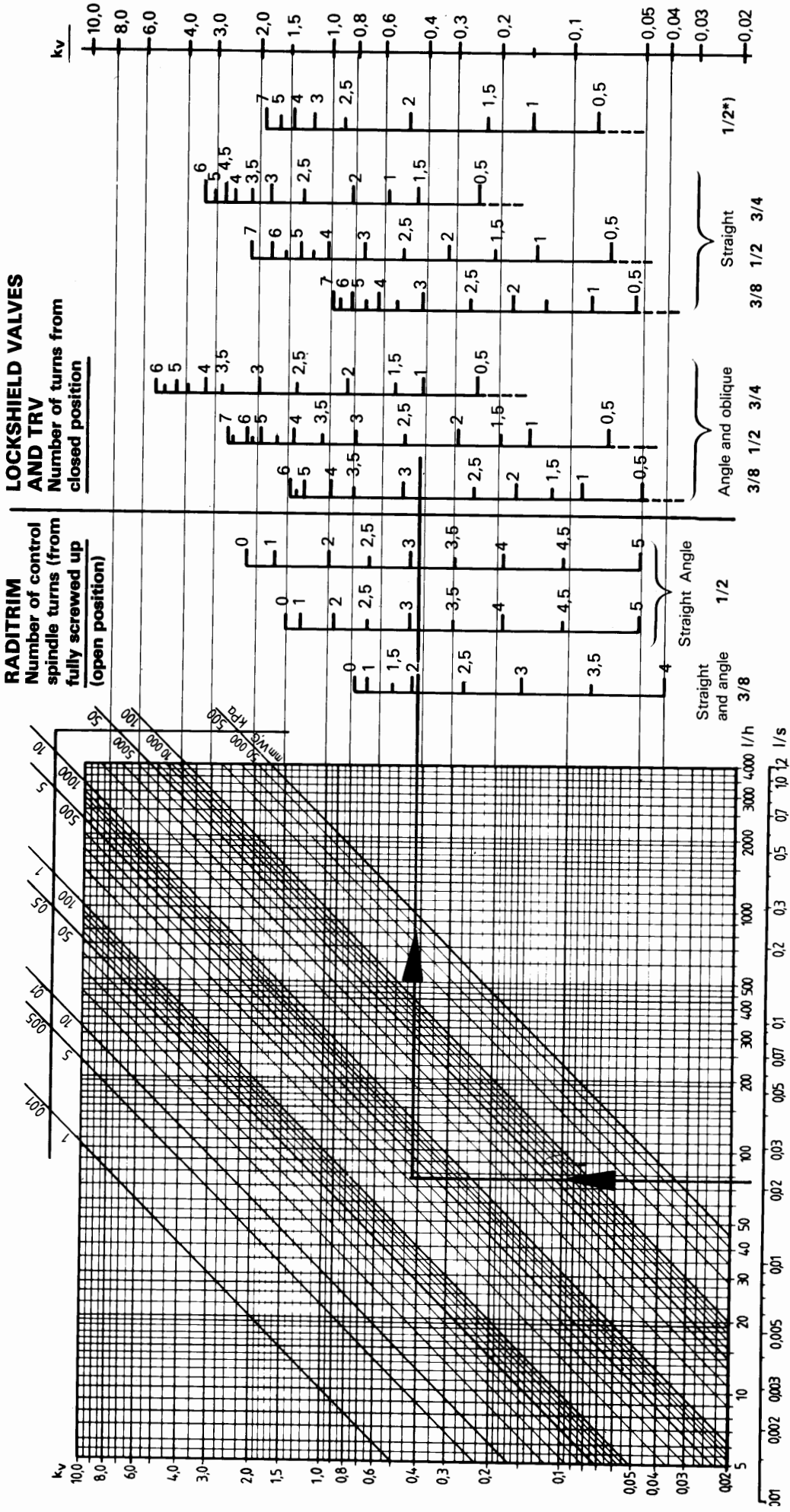
Conn. R	Pipe (mm)						
	8	10	12	15	16	18	22
3/8	53 235-103	53 235-104	53 235-107				
1/2	-108	-109	-111	53 235-113	53 235-114		
3/4				-117	-119	53 235-121	53 235-123

KOMBI ordered separately.

When ordering, specify article number of KOMBI coupling (53 235), connection R and pipe (mm).

Example: 53 235-10 × 8. Further information concerning KOMBI couplings can be found under section 4.

PRESSETTING NOMOGRAM



*) This column only applicable for 50 482, connection size 1/2.

Calculation example:
 Water quantity 75 l/h. Desired total resistance 300 mm WG. Connection size 3/8, angled type. Trace the 75 l/h line up to the point where it intersects with the curve for valve resistance of 300 mm WG and from there across to the right to the scale for connection size 3/8. Here the line RADITRIM meaning that the valve cone is to be screwed

This nomogram shows the values for lockshield valves in connection sizes 3/8 to 3/4. The resistance figure is the same for both angled and oblique valves. The valve coefficient Kv represents the volumetric flow in m³/h at a pressure drop of 1 bar. The figures in the columns show how many turns the valve cone is to be regulated. The valves are always supplied fully open.

accordingly. Our special control card can be used for quick and easy checking of the lockshield valve adjustment. Control cards can be ordered from TA.