



PN 10/16 - DN 50...600

KAT-A 5023

Product characteristics and benefits

- Flange connection on flange side according to EN, ANSI, BS or SABS
- Designed to join pipes of various outside diameters to flange equipment
- Wide range tolerance on OD (up to 23mm)
- Can connect steel, ductile iron, UPVC, cast iron, asbestos cement and other rigid pipe materials

Materials

- Sleeve: Ductile Iron EN-JS 1030 (GGG-40)
- Flange: Ductile iron EN-JS 1030 (GGG-40)
- End ring: Ductile iron EN-JS 1030 (GGG-40)
- Threaded anchor bolts: 4.8 electro galvanized
- Seal: EPDM

Corrosion protection

- Internally and externally epoxy coated

Versions

- With 316 stainless-steel anchor bolts
- NBR and other sealing materials on request

Field of Application

- Underground installation
- Chamber installation
- Installation in plants



Tests and approvals

- WRAS tested and registered
- Certified non toxic elastomers and coatings for use on potable water distribution systems in accordance with BS 6920 (WRAS approved)
- Manufactured in accordance with AWWA C 219

Note

For proper installation and safe operation please follow the installation and operation instructions:

“Installation and Operating Instructions for Valves”

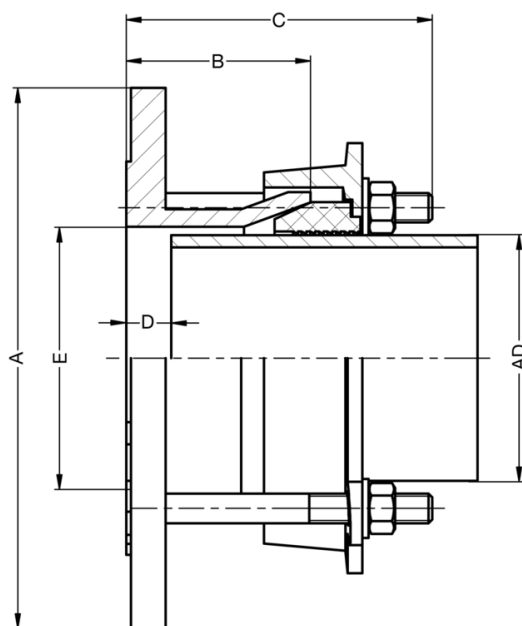
Field of application

DN	PN	Maximum operating pressure	Maximum operating temperature for neutral liquids [°C]
		[bar]	
50...600	10	10	60
50...600	16	16	60

VAG VARIp^{plus}-RFA Ranger® Flange Adaptor for various pipe outside diameters

Water
Wastewater
Sea water

Drawing



Technical data

PN 16

DN	50	65	80	100	125	150	175	200	225	250	250	300
AD Range [mm]	59-72	72-85	88-103	109-128	138-153	159-182	192-210	218-235	242-262	250-267	272-289	315-332
A [mm]	165	185	220	228	276	290	311	340	400	400	405	460
B [mm]	75	75	75	71	75	71	73	75	75	85	85	85
C [mm]	130	130	130	130	130	130	130	135	135	135	135	145
D [mm]	14	19	19	19	19	19	19	19	19	19	19	19
Recommendet setting gap												
E [mm]	76	89	105	131	159	184	212	237	272	271	296	338
Threaded anchor bolts	2x M12x120	4x M12x120	4x M12x120	4x M12x120	4x M12x120	4x M12x120	4x M12x120	4x M12x120	6x M12x135	6x M12x120	6x M12x120	6x M12x120
Weight approx. [kg]	3	4	5	5	7	8	9	10	14	16	16	22
Available flange drilling	BS 10, Table D, E & F; ANSI 150; BS4504 10/3, 16/3; BS EN1092 10/3, 16/3	BS 10, Table F; BS4504 10/3, 16/3; BS EN1092 10/3, 16/3	BS 10, Table D, E & F; ANSI 150; BS4504 10/3, 16/3; BS EN1092 10/3, 16/3	BS 10, Table D, E & F; ANSI 150; BS4504 10/3, 16/3; BS EN1092 10/3, 16/3	BS 10, Table D, E & F; ANSI 150; BS4504 10/3, 16/3; BS EN1092 10/3, 16/3	BS 10, Table D, E & F; ANSI 150; BS4504 10/3, 16/3; BS EN1092 10/3, 16/3	BS 10, Table D, E & F; ANSI 150; BS4504 10/3, 16/3; BS EN1092 10/3, 16/3	BS4504 10/3, 16/3	BS4504 10/3, 16/3	BS 10, Table E; BS4504 10/3, 16/3; BS EN1092 10/3, 16/3	BS 10, Table E; BS4504 10/3, 16/3; BS EN1092 10/3, 16/3	BS 10, Table D, E; ANSI 150; BS4504 10/3, 16/3; BS EN1092 10/3, 16/3



Technical data

PN 16

DN		300	300	350	400	400	450	500	600
AD Range	[mm]	322-340	351-378	374-391	417-437	425-442	480-500	526-546	630-650
A	[mm]	460	520	520	550	580	638	710	840
B	[mm]	85	95	95	95	110	95	93	95
C	[mm]	150	180	145	165	165	167	167	165
D	[mm]	19	19	32	32	32	32	32	32
Recommendet setting gap									
E	[mm]	345	392	399	440	445	502	547	652
Threaded anchor bolts		6x M12x150	8x M12x180	8x M12x140	8x M12x160	8x M12x160	10x M12x160	10x M12x160	10x M12x160
Weight approx.	[kg]	24	29	30	30	32	33	41	51
Available flange drilling		BS 10, Table D, E; ANSI 150; BS4504 10/3, 16/3; BS EN1092 10/3, 16/3	BS 10, Table D, E; ANSI 150; BS4504 10/3, 16/3; BS EN1092 10/3, 16/3	BS4504 10/3, 16/3; BS EN1092 10/3, 16/3	BS4504 10/3, 16/3; BS EN1092 10/3, 16/3	BS4504 10/3, 16/3; BS EN1092 10/3, 16/3	BS4504 10/3, 16/3; BS EN1092 10/3, 16/3	ANSI 150; BS4504 10/3, 16/3; BS EN1092 10/3, 16/3	ANSI 150; BS4504 10/3, 16/3; BS EN1092 10/3, 16/3

PN 10

DN		50	65	80	100	125	150	175	200	225	250	250	300
AD Range	[mm]	59-72	72-85	88-103	109-128	138-153	159-182	192-210	218-235	242-262	250-267	272-289	315-332
A	[mm]	165	185	220	228	276	290	311	340	400	400	405	460
B	[mm]	75	75	75	71	75	71	73	75	75	85	85	85
C	[mm]	130	130	130	130	130	130	130	135	135	135	135	145
D	[mm]	14	19	19	19	19	19	19	19	19	19	19	19
Recommendet setting gap													
E	[mm]	76	89	105	131	159	184	212	237	272	271	296	338
Threaded anchor bolts		2x M12x120	4x M12x120	4x M12x120	4x M12x120	4x M12x120	4x M12x120	4x M12x120	4x M12x120	6x M12x135	6x M12x120	6x M12x120	6x M12x120
Weight approx.	[kg]	3	4	5	5	7	8	9	10	14	16	16	22
Available flange drilling		BS 10, Table D, E & F; ANSI 150; BS4504 10/3, 16/3; BS EN1092 10/3, 16/3	BS 10, Table F; BS4504 10/3, 16/3; BS EN1092 10/3, 16/3	BS 10, Table D, E & F; ANSI 150; BS4504 10/3, 16/3; BS EN1092 10/3, 16/3	BS 10, Table D, E & F; ANSI 150; BS4504 10/3, 16/3; BS EN1092 10/3, 16/3	BS 10, Table D, E & F; ANSI 150; BS4504 10/3, 16/3; BS EN1092 10/3, 16/3	BS 10, Table D, E & F; ANSI 150; BS4504 10/3, 16/3; BS EN1092 10/3, 16/3	BS4504 10/3, 16/3	BS 10, Table D, E; ANSI 150; BS4504 10/3, 16/3; BS EN1092 10/3, 16/3	BS4504 10/3, 16/3	BS 10, Table E; BS4504 10/3, 16/3; BS EN1092 10/3, 16/3	BS 10, Table E; BS4504 10/3, 16/3; BS EN1092 10/3, 16/3	BS 10, Table D, E; ANSI 150; BS4504 10/3, 16/3; BS EN1092 10/3, 16/3

VAG VARiplus-RFA Ranger® Flange Adaptor for various pipe outside diameters



**Water
Wastewater
Sea water**

Technical data

PN 10

DN		300	300	350	400	400	450	500	600
AD Range	[mm]	322-340	351-378	374-391	417-437	425-442	480-500	526-546	630-650
A	[mm]	460	520	520	550	580	638	710	840
B	[mm]	85	95	95	95	110	95	93	95
C	[mm]	150	180	145	165	165	167	167	165
D	[mm]	19	19	32	32	32	32	32	32
Recommendet setting gap									
E	[mm]	345	392	399	440	445	502	547	652
Threaded anchor bolts		6x M12x150	8x M12x180	8x M12x140	8x M12x160	8x M12x160	10x M12x160	10x M12x160	10x M12x160
Weight approx.	[kg]	24	29	30	30	32	33	41	51
Available flange drilling		BS 10, Table D, E; ANSI 150; BS4504 10/3, 16/3; BS EN1092 10/3, 16/3	BS 10, Table D, E; ANSI 150; BS4504 10/3, 16/3; BS EN1092 10/3, 16/3	BS4504 10/3, 16/3; BS EN1092 10/3, 16/3	BS4504 10/3, 16/3; BS EN1092 10/3, 16/3	BS4504 10/3, 16/3; BS EN1092 10/3, 16/3	BS4504 10/3, 16/3; BS EN1092 10/3, 16/3	ANSI 150; BS4504 10/3, 16/3; BS EN1092 10/3, 16/3	ANSI 150; BS4504 10/3, 16/3; BS EN1092 10/3, 16/3