TECHNICAL INFORMATION - RUBBER
AVK GATE VALVES

RUBBER SPECIFICATIONS:

Rubber quality	**EUW-60**	**EUW-70**	**EUW-75**	**EUW-80**	**EUW-85**	**EDK-70**
Rubber type	EPDM	EPDM	EPDM	EPDM	EPDM	EPDM
Hardness (ShA)	60	70	76	80	85	70
Tensile strength (Mpa)	12.0	14.0	15.0	13.0	14.0	13.0
Elongation at break (%)	560	370	353	350	230	300
Density (g/cm³)	1.07	1.10	1.18	1.21	1.21	1.12
Temperature range in dry atmospheric air:						
Minimum temperature (°C) *)	-40	-40	- 40	-40	-40	-40
Maximum temperature (°C) *)	+120	+120	+120	+120	+120	+120
Compression set DIN 53517, 24 hours /70°C (%)	14.0	15.0	12.0	15.0	11.0	8.0
Characteristics:						
Wear resistance	3	3	3	3	3	3
Tear resistance	4	4	4	4	4	3
Resistance to weather and ozone	4	4	4	4	4	4
Resistance to hydrolysis (water and steam)	4	4	4	4	4	4
Resistance to chemicals (acids/bases)	3	3	3	3	3	3
Resistance to mineral oil and gas	0	0	0	0	0	0
Permebility	1	1	1	1	1	1

0: Low 1: Limited 2: Medium 3: Considerable 4: High

Rubber quality	**NGW-55**	**NGW-70**	**NGW-90**	**SAK-70**
Rubber type	NBR	NBR	NBR	SBR
Hardness (ShA)	4	70	90	70
Tensile strength (Mpa)	12.0	15.0	19.0	15.0
Elongation at break (%)	500	320	130	300
Density (g/cm³)	1.17	1.23	1.31	1.17
Temperature range in dry atmospheric air:				
Minimum temperature (°C) *)	-40	-40	-40	-50
Maximum temperature (°C) *)	+110	+110	+110	+100
Compression set DIN 53517, 24 hours /70°C (%)	7.0	8.0	5.0	13.0
Characteristics:				
Wear resistance	3	3	3	4
Tear resistance	3	3	3	3
Resistance to weather and ozone	3	3	3	3
Resistance to hydrolysis - water/steam	3	3	3	3
Resistance to chemicals - acids/bases	2-3	2-3	2-3	2
Resistance to mineral oil and gas	4	4	4	0
Permebility	4	4	4	2

0: Low 1: Limited 2: Medium 3: Considerable 4: High

Approvals/remarks:

EUW-60: Hydrocheck, EN 681-1, WRAS (50˚C), ACS XP P41 -250, EG (60˚C), W270
EUW-70: KTW D1/D2, W270, WRAS (60˚C), ACS XP P 41-250, AS/NZS 4020, NSF-61, EN 681-1, AS 1646-2007, Önorm B5014, Hydrocheck, KIWA, GB5750
EUW-75: W270, WRAS (50˚C), ACS XP P 41-250, EN 681-1, AS/NZS 4020, Hydrocheck, KIWA
EUW-80: KTW D1/D2, W270, WRAS, ACS XP P 41-250, EN 681-1, Hydrochech
EUW-85 WRAS, EG (50˚C), W270
EDK-70: AWWA C509, NSF-61
NGW-55:
NGW-70: EN 682 type GBL, KTW D2
NGW-90: NSF-61
SAK-70: UL-listed 22.06.1993

Above mentioned results are based on laboratory tests and must be evaluated for specific articles and applications.

Fire may create small amounts of hydrogen sulphide, and carbon dioxide. Disposal by incineration in compliance with local regulations.

*) Different temperature restrictions may apply to valves due to bonding between metal and rubber

Expect... AVK

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