



HYDRANTS SOLUTIONS

Expect... **AVK**
الشركة السعودية لصناعة الصمامات المحدودة
SAUDI VALVES MANUFACTURING CO. LTD.



gate valves that meet most of the common national and international standards such as ISO, CEN, DIN, NF, BS, AWWA, JAWA, SABS, AS and GOST. Our global position ensures that we are able to give you, your partners and your customers the quality products you require.

of AVK's strategy; r. ensures close instant-adaptation programme to meet kes place in our ark, an advanced suggestions from existing products l. In co-operation field tested before ng the best result

Arabia, Denmark, nd, USA, Australia, sia, Japan, China, re also produced ies. Stock control andled through a gents and dealers work services the market changes rements.

ENVIRONMENT

structures, which environment all over s to the supply of of wastewater to sequence of this, n all of its internal



FIRE PROTECTION

Fire protection installations are essential in societies aiming to protect people, the environment and uncontrollable fires. Firefighters must act quickly and efficiently which calls for a reliable water supply equipment.

AVK offers a wide range of hydrants, valves, indicator posts and accessories for fire protection installations. AVK hydrants are designed to comply with individual market demands and needs focusing on reliable effective operations.

A comprehensive range of fire hydrants and gate valves are produced according to a number of national standards. The complete firefighting package complies with international standards and consists of hydrants, N valves, handwheel operated OS&Y gate valves, post and wall indicators, all UL listed and FM approved



primarily designed for areas with frost, where the water main is located. AVK dry barrel fire hydrants meet or exceed AWWA C-502 and are UL listed. They are designed for high performance, easy repair and minimum end-user inventory.

Repair

Designed with a breakable flange and a stem rod coupling which prevents traffic knock down. The hydrant's main valve has a ductile iron core encapsulated in EPDM rubber. The nozzle section can be rotated 360 degrees. The hydrant is repairable under pressure.

Drain outlets located just above the water main level. The main valve allows for flushing the drain channels for soil and other impurities during operation. After turning the operation key 2 to 3 degrees, the barrel will be filled with water which will flow directly into the appropriate connection.

It is important to make sure that the base is surrounded by gravel to prevent the water from washing off the soil. Otherwise, this could result in the water flowing through the drain holes in the base when the hydrant is flushed.

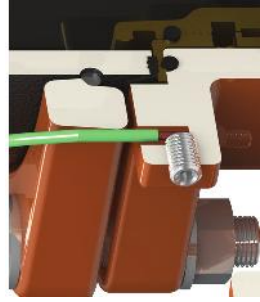
meet or exceed AWWA C502.

250 PSI. nozzle section, barrel section, and base. high flow rate.

under pressure. in rotation. with external stainless steel lock screw.

easy repair. designed for longer operational life (resists corrosion resistance).

can be changed without dismantling hydrant. ion bonded epoxy coatings inside and outside nozzle fusion bonded polyester coating. plugged, if required — may be plugged internally or



AVK FULLY ENCAPSULATED ONE-PIECE MAIN VALVE

- Patented AVK design — one piece replaces up to 13 pieces
- Ductile iron core fully encapsulated in EPDM rubber
- No exposed metal — completely corrosion resistant
- Easy maintenance
- Cost-effective, labour saving — reduced inventory
- UL listed and FM approved



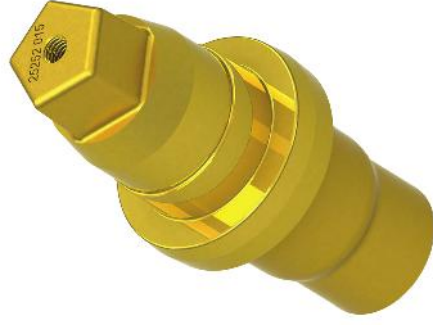
ADDITIONAL PROTECTION

The AVK TamperGuard lock is a simple and effective means of securing your hydrant against tampering, vandalism and water theft.



EVERY HYDRANT IS TRACEABLE

Every AVK hydrant has a unique serial number engraved on the operating nut. This provides us with complete traceability to the date the hydrant was built, and to every operation performed throughout our manufacturing process. AVK takes quality seriously in order to produce a long-lasting hydrant and provide total savings to you.



S 24/10

ant – Wet Barrel with monitor flange
to AWWA C503
FM approved
AWWA (6 holes)
psi



als and nozzles are made

NST hose nozzle

1 ½" NST, 4" BS336 or 5" storz pumper

aps and dummy nuts optionally

S 27/00

ant – Dry Barrel

to AWWA C502

FM approved

ANSI

or straight shoe inlet types

sure rated 250 psi

ustable

traffic system

utlets

NST hose nozzle

½" NST, 4" BS336 or 5" storz pumper

ets at the base

with different bury depths

with different stem materials

with 2 ½" instantaneous coupling to

with 2 ½" globe valve with instantaneous

to BS336

S 29/388

und Fire Hydrant

to EN14339:2005/BS750:2012

proved

at flange universal drilled to EN1092-2 PN10/16 & BS10 table D/E

available with PN25 version)

on, round thread outlet to BS 750

SERIES 24/96

Fire Hydrant – Wet Barrel
Designed to AWWA C503
UL listed, FM approved
6" Inlet to ANSI (8 holes)
RWP 200 psi

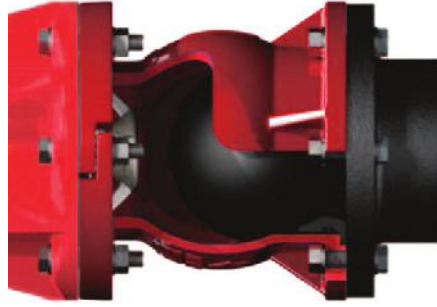
All internals and nozzles are made of Bronze

2 x 2 ½" NST hose nozzle

1 x 4" ¼" NST, 4" BS336 or 5" storz

pumper nozzle

Bronze caps and dummy nuts optionally



SERIES 120/55

Fire Hydrant – Dry Barrel

Designed to EN1074-6

4" and 6" duck-foot inlet with loose flange for

easy installation

Inlet to PN16

360° Adjustable

Breakable traffic system

Anodized Aluminum outlets

Available with bronze outlets

2 x 2 ½" NST hose nozzle

1 x 4" ¼" NST pumper nozzle

Drain outlet at the base

Available with different bury depths

Available with 2 ½" instantaneous coupling to

BS336

Available with 2 ½" globe valve with instantana-

neous coupling to BS336



SERIES 24/88

Breakable ball check valve for
wet barrel fire hydrant

RWP 250 psi

Ductile iron ball fully encapsula-
ted with EPDM
rubber

Flange drilling to ANSI B16.42

Class 150 FF



SERIES 24/8X

Traffic repair Kit for wet
barrel fire hydrants



SERIES 27/70

Extension kit for dry
barrel fire hydrants
Available with different
lengths



RANGE

4/00

telescopic to suit DN50-
 ator gate valves
 JL789 & FM1110
 100-400)
 (DN100-350)
 st indicator available with
 is
 available of cast steel
 optional of PVC



SERIES 34/80

Wall Post Indicator
 Designed to UL789 &
 FM1110
 UL listed (DN100-400)
 FM approved (DN100-
 350) To suit DN50-
 DN400 post indicator gate valve
 Available with stem lengths 250, 750
 & 1250mm
 Prepared for supervisory switch



SERIES 45/XX

Gate Valve resilient seated
 for Post Indicator with
 flanged ends
 Designed to AWWA C509
 UL listed, FM approved
 Face to face according to
 ASME B16.10
 DN50-DN400
 RWP 250 psi
 Flange drilling to ANSI
 B16.42 Class 150 FF
 Available with Aluminium
 Bronze or Stainless steel
 AISI 316 stem



5/XX

ilient seated with flanged
 AWWA C509
 approved
 according to ASME
)
 g to ANSI B16.42
 Aluminium Bronze or Stain-
 i 316 stem



SERIES 45/XX

Gate Valve resilient seated
 OS&Y with flanged ends
 Designed to AWWA C509
 UL listed, FM approved
 Face to face according to ASME B16.10
 DN50-DN400
 RWP 250 psi
 Flange drilling to ANSI B16.42 Class
 150 FF
 Available with Aluminium Bronze or
 Stainless steel AISI 316 stem



SERIES 45/XX

Gate Valve resilient seated with
 flanged ends
 Prepared for actuator
 Designed to AWWA C509
 Face to face according to ASME
 B16.10
 DN50-DN400
 RWP 250 psi
 Flange drilling to ANSI B16.42
 Class 150 FF
 Available with Aluminium Bronze
 or Stainless steel AISI 316 stem

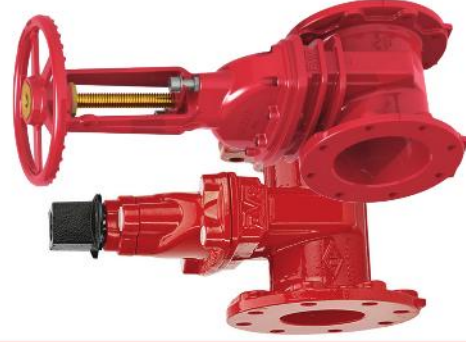


RANGE

S 55/XX

Gate valve resilient seated
with flanged ends
designed to AWWA C515
Face to face according to
ASME B16.10
DN600
250 psi Flange
ANSI B16.42 Class

Available with Aluminium
or Stainless steel
stem



SERIES 145/XX

Gate Valve resilient seated
Designed to FM 1120/1130 and UL 262
Face to face: ASME B16.10
Size: 2" - 16" (DN50-400)
RWP: 250 psi
Flange drilling : ANSI B16.42 Class 150
Available with Aluminium bronze/Stain-
less steel AISI 316 stem
Types:
NRS (Non-Rising Stem)
OS&Y (Rising Stem)
UL listed, FM approved



SERIES 815

Gate Valve resilient seated
for actuator with flanged
ends
Designed to AWWA C515
Face to face according to
ASME B16.10
DN450-DN600
RWP 250 psi Flange
drilling to ANSI B16.42
Class 150 FF
Available with Aluminium
Bronze or Stainless steel
AISI 316 stem



S 5190/00

Check Valve meeting UL312
Ductile Iron
2" - 8" (DN50 - 200)
Stainless Steel
available with EN1092-2
Drilling to EN1092-2
(available with ANSI CL 150)
Fusion Bonded Epoxy
Pressure: 350 psi



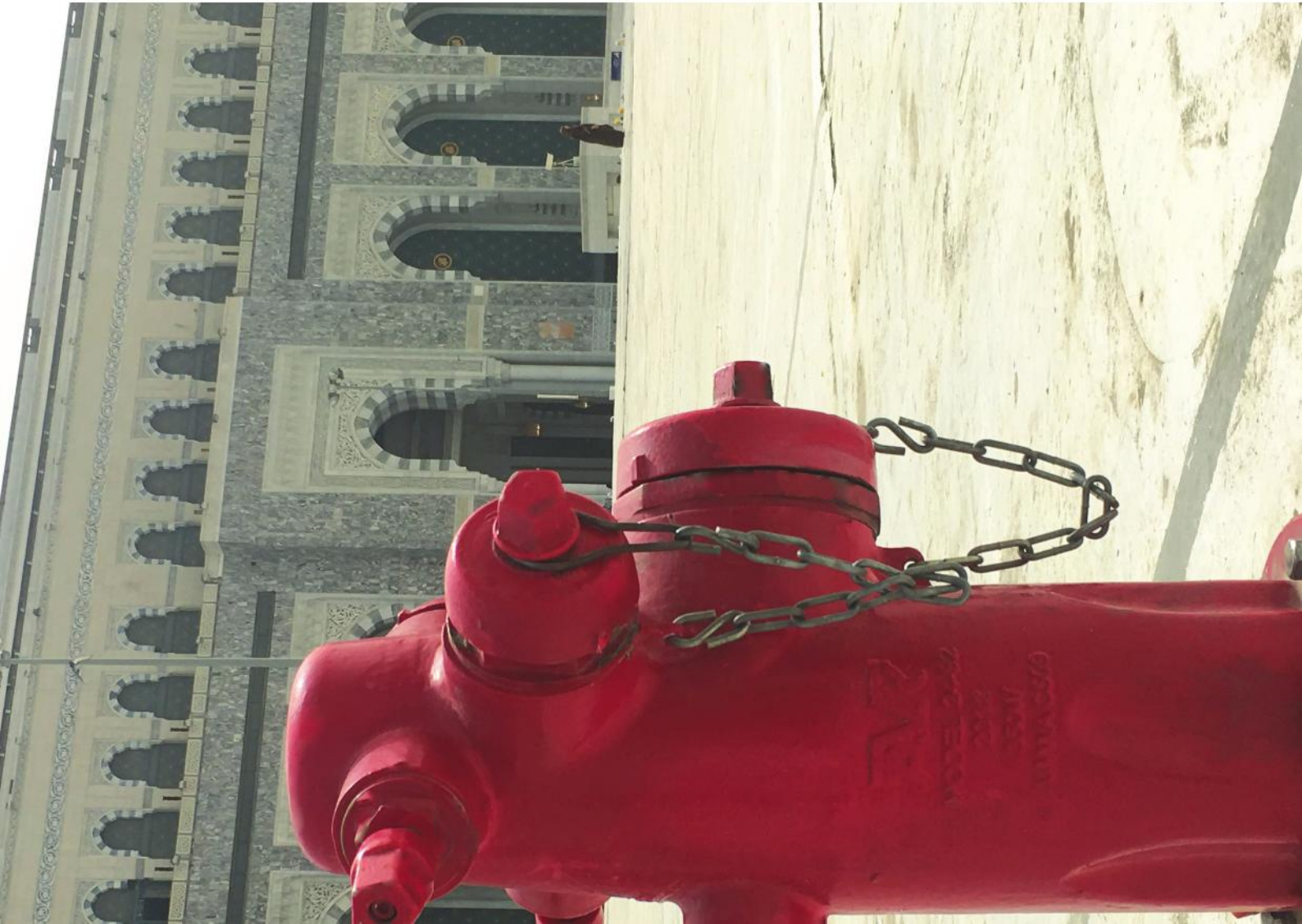
SERIES 5190/0X

Grooved End Check Valve meeting
UL312 & FM1210
Body: Ductile Iron
Sizes: 2" - 8" (DN50 - 200)
Clapper: Stainless Steel
Spring: Stainless Steel
Coating: Fusion Bonded Epoxy
Working Pressure: 350 psi
UL listed, FM approved



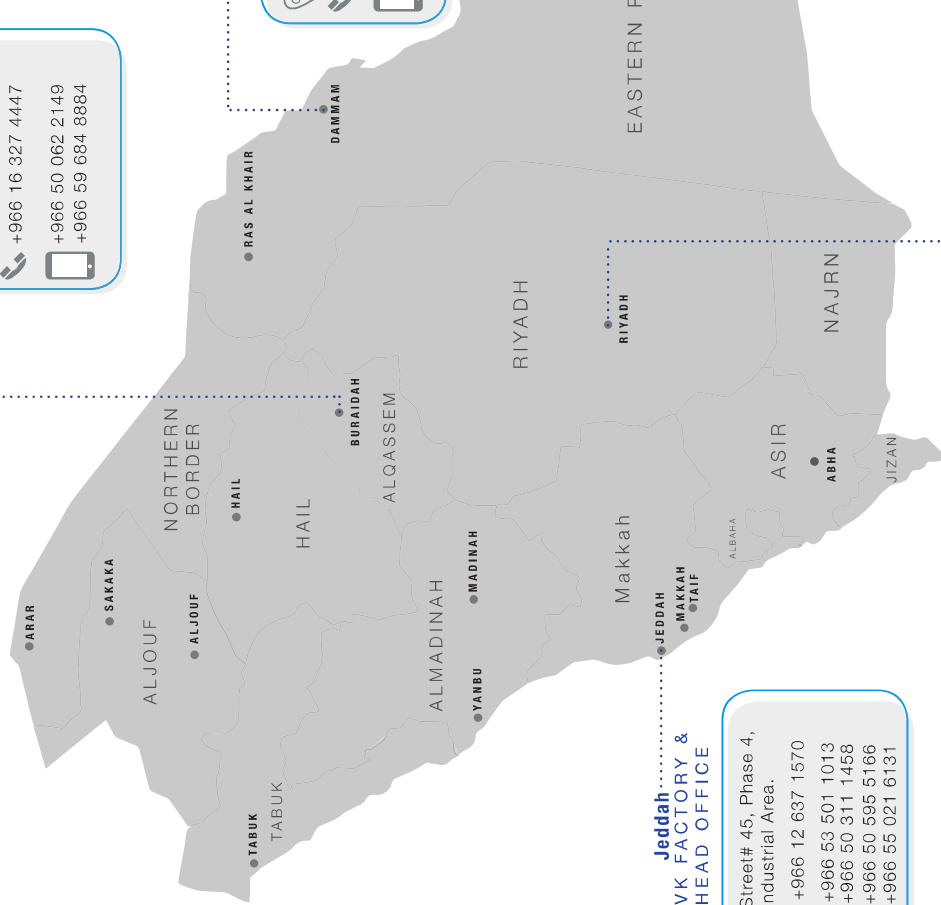
SERIES 75/41

Butterfly valve
Centric with fixed liner
Double flanged short
DN 50-300
PN 10 or 16
Ductile iron
FM approved



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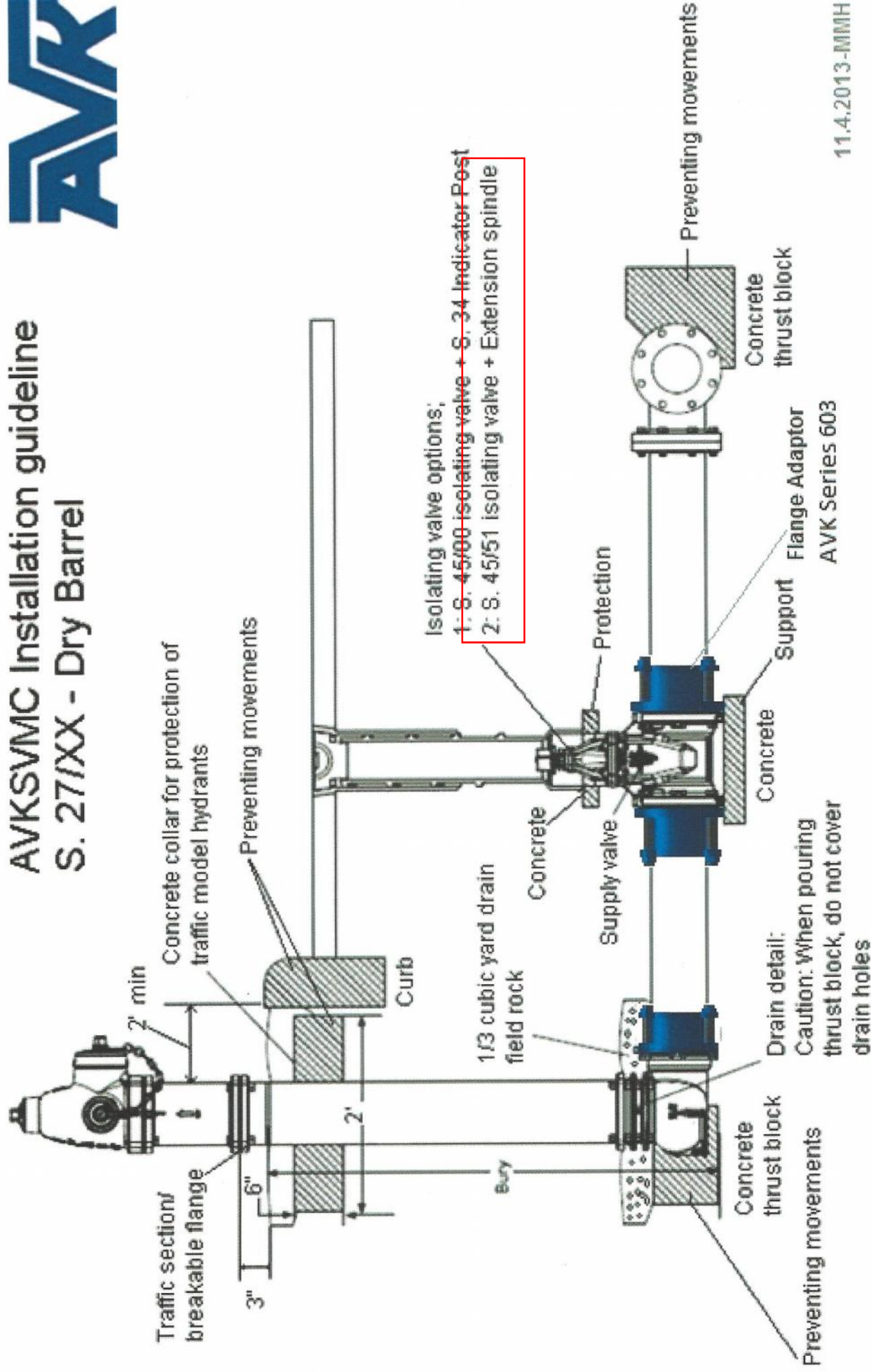
www.avksvmc.com

We highly recommend that any person using this data for practical purposes should have specialist training and expertise in the application of these products and knowledge of their installation and operating conditions. If any assistance is required, please consult with a member of AVK team.

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AVKSVMC Installation guideline S. 27/XX - Dry Barrel



Working pressure 16 Bar with Flanged inlet.
Meets or exceeds **AWWA C502-85**

Removable outlets & hydrant seat, Travel stop, Traffic breakable flange, Outlets 360 adjustable
Min. 5 1/4" (133mm) valve bore & automatic bronze drain channel.




Tests:
Hydraulic Test: 16 bar seat test
32 bar shell test
Options:
Bury depths from 1220mm optionally
1370mm. Other lengths available on
request.

Nozzle outlets configuration:

Standard: 2 X 2.5: Hose Nozzles
NST - Thread
1 X 4" or 4.5" Pumper Nozzle
NST- Thread

Options: Threads to BS 336
Female or Male Instantaneous
couplings to BS336
incl./excl.
2.5" Globe valve/Gate valve

Approvals:
UL - listed
FM - approved
ULC - listed

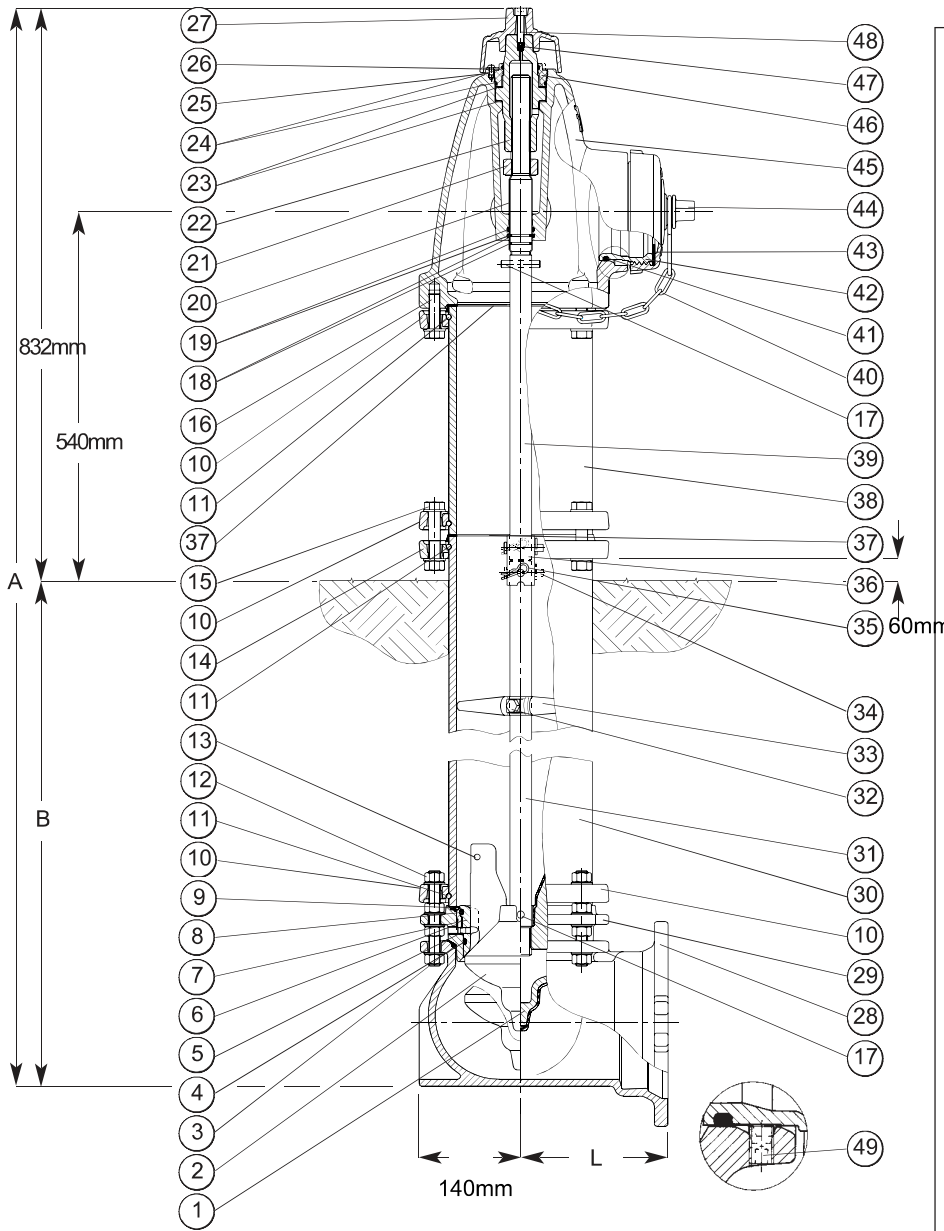




Materials:

Nozzle section, Barrels, Stand- pipe flanges, Breakable flange, Base, Main valve flange, Weathershield operating nut	Ductile Iron
Main Valve Disc	Ductile iron core, fully encap- sulated in EPDM Rubber
Caps	Cast iron
Coating	Above ground, fusion bonded Epoxy, inside and out.
Nozzles, Valve seat ring, Drain ring, Drain bushings and plugs, Stem nut, Stem Bushing, Thrust nut	Bronze
Stop nut, Cap chain, Bolts, Nuts	Zinc Plated Steel
Upper and Lower stem rod	Epoxy coated steel
Stem rod coupling, Standpipe lock rings, Nozzle lock screw, Lock plate, Lock plate screw, Spider bolt	Stainless Steel 304
Barrel gaskets, Cap gaskets	Nitrile rubber
O-rings	Buna "N"



Working pressure 16 Bar with Flanged inlet.
 Meets or exceeds AWWA C502-85
 Removable outlets & hydrant seat, Travel stop, Traffic breakable flange, Outlets 360 adjustable
 Min. 1/4" (133mm) valve bore & automatic bronze drain channel.



Component list

1. Main Valve Core
2. Main Valve
3. Base Gasket
4. Lower Seat O-ring
5. Drain Bushing
6. Drain Ring
7. Valve Seat Ring
8. Upper Seat O-ring
9. Standpipe O-ring
10. Standpipe Flange
11. Lock Ring
12. Threaded Rod and Nut
13. Stop Pin
14. Breakable Flange
15. Bolt and Nut
16. Screw
17. Seat Removal/Lock Pins
18. Stem Bushing O-rings
19. Oil reservoir O-rings
20. Upper Stem Rod Bushing
21. Stop Nut
22. Stem Nut
23. Anti Friction Washer
24. Upper and Lower Thrust nut O-rings
25. Lock plate Screw
26. Lock plate
27. Weathershield Operating nut
28. Base
29. Main Valve / Drain Ring Flange
30. Standpipe
31. Lower Stem Rod
32. Spider Bolt
33. Spider
34. Split Bolt
35. Spring Pin
36. Breakable Coupling
37. Barrel Gasket
38. Upper Barrel
39. Upper Stem Rod
40. Cap Chain
41. Nozzle O-ring
42. Nozzle
43. Cap Gasket
44. Cap
45. Nozzle Section
46. Thrust nut
47. Lubrication Hole Seal
48. Operating Nut Screw
49. Nozzle Lock screw

Ref. nos.	Nozzles	A	B	L Flanged	L Socket
27-00	2 x hose and 1 x pumper	2052 or 2202	1220 or 1370	200	226

Note: When ordering, please specify Base type and size, Bury depth, Pumper nozzle size, Nozzle threads and finished color.

Options:

- 4" Flanged End to PN10/PN16 BS4504 DIN 2501
- 6" Flanged End to PN10/PN16 BS4504 DIN 2501
- 4" Socket (110mm)



**AVK GATE VALVE, FLANGED, NRS, UL/FM APPROVED, 250 PSI****145/40-002****ANSI B16.42 cl. 150, wrench nut, CTC, A2 bolts, SS 304 stem, red RAL 3000, DN 65-200**

AVK gate valves are designed with built-in safety in every detail. The sturdy wedge is fully vulcanized in a double bonding process with AVK's own drinking water approved EPDM rubber compound which features a very low compression set resulting in an outstanding ability to regain the original shape after having been compressed. A triple stem seal system, a high strength stem and a thorough corrosion protection safeguard the unmatched reliability.

Product description:

Flanged gate valve with wrench nut - UL/FM approved for fire protection applications to max. 70° C

Standards:

- Designed according to FM 1120/1130, UL 262
- Face to face according to ASME B16.10, table 1, class 125
- Flange drilling to ANSI B 16.42, class 150

Test/Approvals:

- Hydraulic tests according to FM and UL Standards
- Seat test 375 psi, shell test 500 psi, closing torque test, full travel operational test.
- FM Approved, UL listed

Features:

- Fixed, integral wedge nut prevents vibration
- Wedge core in ductile iron, fully encapsulated in drinking water approved EPDM in a 2-step vulcanization process that leaves a very strong rubber-iron bond preventing corrosion underneath the rubber. No iron parts are exposed to the water
- A large through bore in the wedge eliminates collection of stagnant water which might cause contamination
- Wedge shoes integrated in the rubber
- Stem in stainless steel with rolled threads for high strength
- Stem seal with one lower main O-ring backed up by two upper O-rings in a polyamide bearing replaceable under pressure
- Round bonnet gasket, fixed in a groove in the bonnet preventing it from being blown out in pressure surges
- Counterbored and hot melt sealed bonnet bolts in stainless steel, encircled by the bonnet gasket preventing contact with the water
- Full bore and clear way
- Low operating torque
- Fusion bonded epoxy coating acc. to DIN 30677

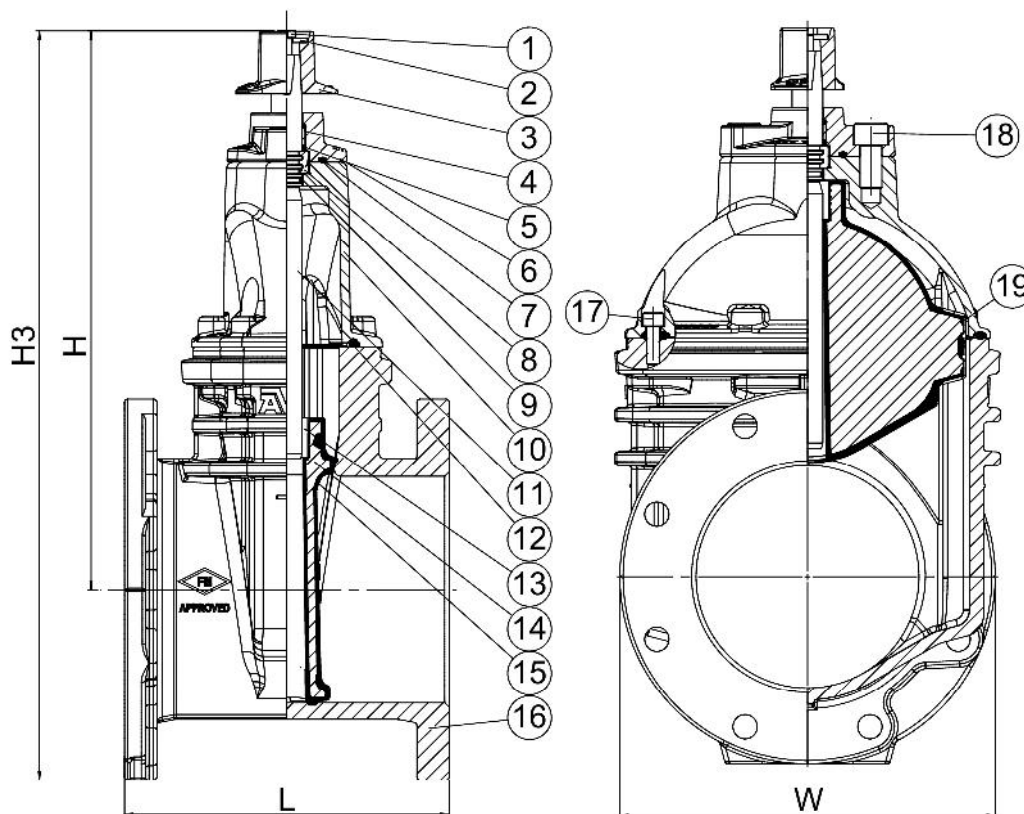
Accessories:

Extension spindle, street cover, T-key, wall post indicator, flange adaptor and combi-flange

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The designs, materials and specifications shown are subject to change without notice due to the continuous development of our product range.

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Component list:

1. Bolt	Stainless steel A2	11. Stem	Stainless steel 304
2. Washer	Stainless steel A2	12. Bonnet gasket	NBR rubber
3. Wrench nut	Cast iron	13. Wedge nut	Brass, DZR CW626N
4. Bearing	Polyamide	14. Wedge core	Ductile iron GJS-500-7 (GGG-50)
5. O-ring	NBR rubber	15. Wedge rubber	EPDM rubber
6. Gland flange	Ductile iron GJS-500-7 (GGG-50)	16. Body	Ductile iron GJS-500-7 (GGG-50)
7. O-ring	NBR rubber	17. Bolt, socket head	Stainless steel A2
8. Thrust collar	Brass, DZR CW602N	18. Bolt, socket head	Stainless steel A2
9. O-ring	NBR rubber	19. Wedge shoe	Polyamide
10. Bonnet	Ductile iron GJS-500-7 (GGG-50)		

Components may be substituted with equivalent or higher class materials without prior notification.

Reference nos. and dimensions:

AVK ref. no.	DN	Flange	L	H	W	H3	Theoretical weight / kg
	mm	drilling	mm	mm	mm	mm	
145-065-40-02396120	65	B16.42	190	267	178	356	13
145-080-40-02396120	80	B16.42	203	304	191	399	17
145-100-40-02396120	100	B16.42	229	322	229	436	22
145-150-40-02396120	150	B16.42	267	409	280	549	43
145-200-40-02396120	200	B16.42	292	502	352	674	76

Telescopic or fixed-length

Use:

For service connection valves

Materials:

Square bar and steel pipe	Galvanized steel
Bottom adaptor	Ductile iron, GGG-40, to DIN 1693 (BS 2789 grade 420 - 12 min.)
Spindle cap	Grey cast iron, GG-25, to DIN 1691 (BS 1452 grade 220/250)
Coating to	Electrostatically applied epoxy resin DIN 30677
Protection tube	HDPE
Top cover and Bayonet connector	HDPE
Bolt	Stainless steel A2
Split	Stainless steel A2

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Fixed-length



Telescopic

For further specification, see section "Technical information".
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AVK SAUDI VALVES/2000

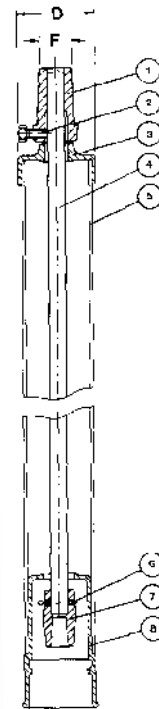
Telescopic or fixed-length

Component list

- | | |
|--------------------|----------------------|
| 1. Spindle cap | 6. Split |
| 2. Bolt | 7. Bottom adaptor |
| 3. Top cover | 8. Bayonet connector |
| 4. Square bar | |
| 5. Protection tube | |

Fixed-length:

Ref. nos.	DN	Pipe-cover mm	F mm	D mm
04-032-0000	25-50	800	27	70
04-032-0100	25-50	1000	27	70
04-032-0200	25-50	1250	27	70
04-032-0300	25-50	1500	27	70
04-032-0400	25-50	2000	27	70
04-032-0500	25-50	3000	27	70

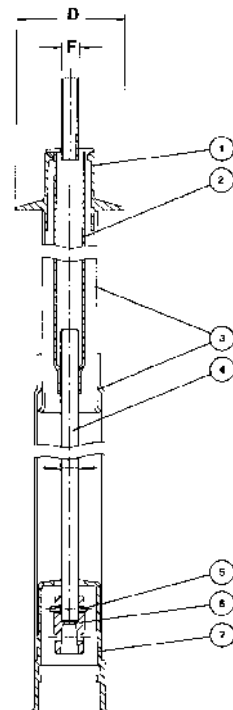


Component list

- | | |
|--------------------|----------------------|
| 1. Top cover | 5. Split |
| 2. Steel pipe | 6. Bottom adaptor |
| 3. Protection tube | 7. Bayonet connector |
| 4. Square bar | |

Telescopic:

AVK nr.	DN	Pipe-cover mm	F mm	D mm
04-032-2501	25-50	500-800	16	100
04-032-2601	25-50	700-1200	16	100
04-032-2701	25-50	1100-1700	16	100
04-032-2801	25-50	1700-3000	16	100



All dimensions in mm Pos. 3

Tag no.	Nom. Dia (size)	Spindle range	Qty.
03540	3" (DN 80)	500-800	1
03540	3" (DN 80)	250-350	1
03541	4" (DN 100)	500-800	4
03271	12" (DN 300)	700-1200	1
03271	12" (DN 300)	*	1
03271	12" (DN 300)	700-1200	1

* Lt. too short for spindle, hence, stem cap will be provided

Fixed street-cover

Options:

Floating Street Cover

Materials:

Floating street-cover:

Body and lid Ductile iron (GGG-40) EN 1563

Coating Electrostatically applied FBE to DIN 30677

Lid-sealing Vulcanized NBR-rubber gasket for extra sealing

Lid Grey cast iron to EN 1561

Options (Markings):

Water (English & Arabic)

Potable Water (English & Arabic)

Fire Water (English)

Irrigation Water (English)

Sewer (English & Arabic)

Materials:

»Fixed« street-cover:

Body and lid Grey cast iron (GG-25) EN 1561

Coating Electrostatically applied FBE to DIN 30677

Lid-sealing Vulcanized NBR-rubber gasket for extra sealing



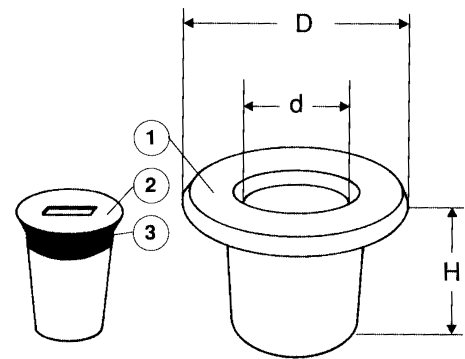
Fixed street-cover
Floating street-cover

Component list

- 1. Body
- 2. Lid
- 3. Lid-sealing

"Fixed" street cover - Ref. nos. - 04-000-5000 - (Water)

Body Ref. nos.	Lid Ref. nos.	H mm	d mm	D mm	Weight kilos
04-000-5100	04-000-7100	190	80	195	6.5



Component list

- 1. Body
- 2. Lid
- 3. Lid-sealing

"Floating" street-cover

Body Ref. nos.	Lid Ref. nos.	H mm	d mm	D mm	Weight kilos
04-000-6000	04-000-5200	130	80	200	6
04-000-6500	04-002-6300	150	120	240	10

