



















2016 - 11

CYAKACIK®VALF





Field of Application

Fire hydrants are used to extinguish fire at buildings, factories, industrial plants etc.

Main Components

YAKACIK VALF Fire Hydrants are compatible with TSE 2821/1. Main components are cast iron body, operating equipment (valve), stem which transmits motion to valve, automatic discharge equipment and hose assembly parts.







Working Principle

When the operating nut is turned in opening direction by a special hydrant wrench, the stem moves down. Disc is seperated from the seat and water flow starts. When operating nut is turned in closing direction, the disc contacts with the seat and halts the water flow. In the closed position, the water pressure exerts a force on disc in closing direction which enhances leaktightness.

■ Immediate Intervention

YAKACIK VALF fire hydrants provide water to fire fighters in a very short time. They enable immediate intervention to minimize human life and property loss.

■ No Shock Effect

The cross section of the YAKACIK VALF fire hydrants is uniform which prevents water turbulence. Shock effect is eliminated and the fire fighter can easily handle the hose.

Automatic Discharging

The automatic discharge equipment discharges the residual water in the body to protect the hydrant against freezing.

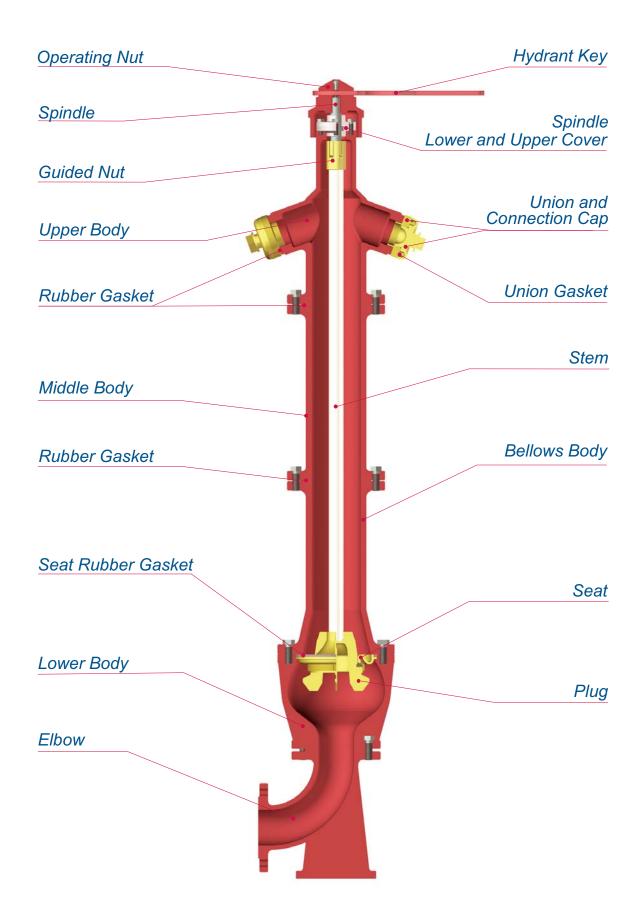
No Pumping Action

Since water pressure exerts a force in the closing direction, It is easy to shut off the water flow.

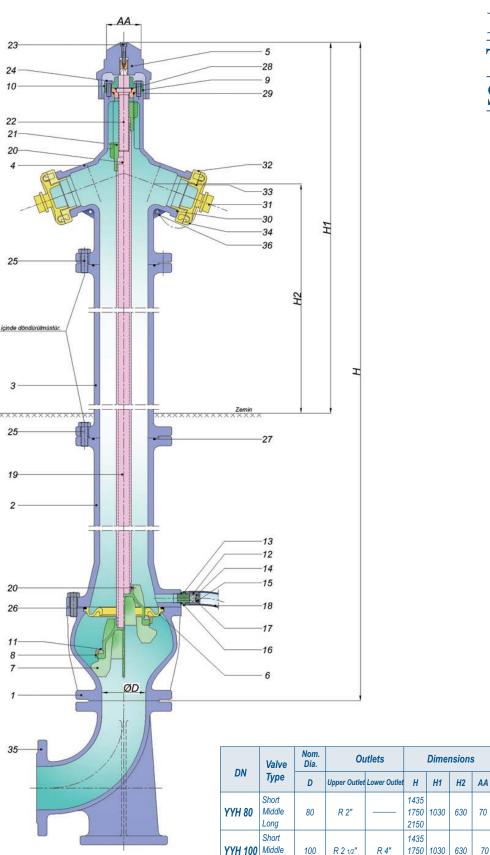
Long Life

When the hydrant is in open position, wing form of the plug prevents vibration. Having negligible vibration provides long service life.









YYH 150 Long

DN 80-100-150
Tip: YYH
Short-Middle-Long

Material Type	Cast Iron	Ductile Iron			
Size	DN 80-100	DN 80-100			
Pressure Class	PN16	PN16			
Dimensions	TS EN 14384	TS EN 14384			
Assembly	Flanged according to DIN EN 1902-2 PN 16	Flanged according DIN EN 1902-2 I			
Unions	According to TS 12258	According to TS			
Flanged Elbow	According to DIN 28538	According to DIN			
Hydrant Key	According to TS 37398	According to TS			
Order Code	YFH.2F	YFH.8F			

P.No	Part Name	Cast Iron	Ductile Iron	
1	Lower Body	GJL 250	0.7040	
2	Bellows Body	GJL 250	0.7040	
3	Middle Body	GJL 250	0.7040	
4	Upper Body	GJL 250	0.7040	
5	Operating Nut	GJL 250	0.7040	
6	Seat	Ck 22 + 1.4408*	Ck 22 + 1.4408	
7	Plug	0.7040*	0.7040*	
8	Plug Nut	0.7040*	0.7040*	
9	Spindle Bear	St-42 + Gal.	St-42 + Gal.	
10	Upper Cover	St-42 + Gal.	St-42 + Gal.	
11	Plug Gasket	Nitrile Rubber	Nitrile Rubber	
12	Drain Valve Body	Ms-58	Ms-58	
13	Drain Valve Nipple	Ms-58	Ms-58	
14	Drain Valve Spring	1.4310	1.4310	
15	Drain Valve Seat	Nitrile Rubber	Nitrile Rubber	
16	Drain Valve Gasket	Nitrile Rubber	Nitrile Rubber	
17	Drain Valve Ball	Glass	Glass	
18	Drain Valve Discharging Hose	Plastic	Plastic	
19	Stem 1"	St-42	St-42	
20	Stem Pin	Ms-58	Ms-58	
21	Guided Nut	Ms-58	Ms-58	
22	Spindle	1.4021	1.4021	
23	Setscrew M8x40	8.8+Gal.	8.8+Gal.	
24	Bolt	8.8+Gal.	8.8+Gal.	
25	Bolt	8.8+Gal.	8.8+Gal.	
26	O-Ring	Nitrile Rubber	Nitrile Rubber	
27	O-Ring	Nitrile Rubber	Nitrile Rubber	
28	O-Ring	Nitrile Rubber	Nitrile Rubber	
29	O-Ring	Nitrile Rubber	Nitrile Rubber	
30	O-Ring	Nitrile Rubber	Nitrile Rubber	
31	Connection Cap	AI*	AI*	
32	Union	AI*	AI*	
33	Union Gasket	Nitrile Rubber	Nitrile Rubber	
34	Union Chain	St-37	St-37	
35	Elbow	GJL 250	0.7040	
36	Union Chain Fixing Ring	St-37	St-37	

^{*} Upon request, 1.4408 may be produced

2150

710



Quantity and Location

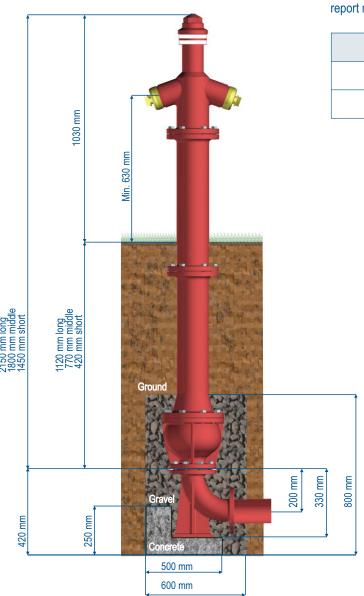
It is generally accepted that 3 (max. 4) hydrants are enough to extinguish a medium building fire in 3 to 15 minutes.

1-) Sufficient number of hydrant must be located outside of the building and two hoses must be connected.

Distance between hydrants:

■ In factories and depots : 40-50 meters In residential areas 150 meters

- 2-) Distance between the hydrant and the building should not be less than 12 meters under normal conditions. The closer the distance is, the higher the adverse effect of high temperature to hydrant usage.
- 3-) The hydrants must be located on smooth stones or concrete, the vicinity of automatic discharge (drain valve) must not be filled with gravels, shingles etc.
- 4-) The centre height of the union must not be less than 630 mm above the ground.
- 5-) When the pipes are to be replaced with the new ones, the new pipes must be cleaned before mounting.



Hydromechanical tests of YAKACIK VALF Fire Hydrants were carried by ITU Mechanical Engineering Department, Hydromechanical Laboratories with the report number 96/21. The results are as follows:

Size	Flow Single Outlet	Flow Double Outlets		
DN 80	73* m³/h	90 m³/h		
DN 100	116 m³/h	128 m³/h		

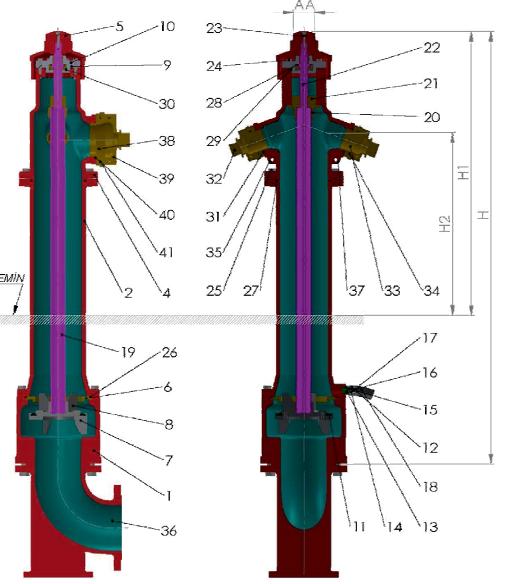


Fire Hydrants Mounting Example

YAKACIK VALF Fire Hydrants Assembly Dimensions



DN 150
Type: YYH
Short-Long



Material Type	Cast Iron	Ductile Iron
Size	DN 150	DN 150
Pressure Class	PN16	PN16
Dimensions	TS EN 14384	TS EN 14384
Assembly	Flanged according to DIN EN 1902-2 PN 16	Flanged according to DIN EN 1902-2 PN 16
Unions	According to TS 12258	According to TS 12258
Flanged Elbow	According to DIN 28538	According to DIN 28538
Hydrant Key	According to TS 37398	According to TS 37398
Order Code	YFH.2F	YFH.8F

P.No	Part Name	Cast Iron	Ductile Iron		
1	Lower Body	GJL-250	0.7040		
2	Body	GJL 250	0.7040		
3	Middle Body	GJL 250	0.7040		
4	Upper Body	GJL 250	0.7040		
5	Operating Nut	GJL 250	0.7040		
6	Seat	Ck 22 + 1.4408*	Ck 22 + 1.4408*		
7	Plug	0.7040*	0.7040*		
8	Plug Nut	0.7040*	0.7040*		
9	Spindle Bear	St-42 + gal.	St-42 + gal.		
10	Upper Cover	St-42 + gal.	St-42 + gal.		
11	Plug Gasket	NBR	NBR		
12	Drain Valve Body	Ms-58	Ms-58		
13	Drain Valve Nipple	Ms-58	Ms-58		
14	Drain Valve Spring	1.4310	1.4310		
15	Drain Valve Seat	NBR	NBR		
16	Drain Valve Gasket	NBR	NBR		
17	Drain Valve Ball	Glass	Glass		
18	Drain Valve Discharging Hose	Plastic	Plastic		
19	Stem 1"	St-42	St-42		
20	Stem Pin	Ms-58	Ms-58		
21	Guided Nut	Ms-58	Ms-58		
22	Spindle	1.4021	1.4021		
23	Setscrew M8x40	8.8+Gal.	8.8+Gal.		
24	Bolt	8.8+Gal.	8.8+Gal.		
25	Bolt	8.8+Gal.	8.8+Gal.		
26	O-ring	NBR	NBR		
27	O-ring	NBR	NBR		
28	O-ring	NBR	NBR		
29	O-ring	NBR	NBR		
30	O-ring	NBR	NBR		
31	O-ring	NBR	NBR		
32	Connection Cap	AI*	AI*		
33	Union	AI*	AI*		
34	Union Gasket	NBR	NBR		
35	Union Chain	St-37	St-37		
36	Elbow	GJL 250	0.7040		
37	Union Chain Fixing Ring	St-37	St-37		
38	Connection Cap 4"	GJL250	0.7040		
39	Union 4"	GJL250	0.7040		
40	Union Gasket 4"	NBR	NBR		
41	Union Chain 4"	St-37	St-37		

DN	Valve	Nom. Dia.	Outlets		Dimensions			
DN	Туре	D	Upper Outlet	Lower Outlet	Н	Н1	Н2	AA
YYH 150	Long Tip	150	R 2" 1/2"	R 4"	2150	1030	710	70
YYH 150	Short Tip	150	R 2" 1/2"	R 4"	1435	1030	710	70

^{*} Upon request, 1.4408 may be produced



Economic, Easy to Service

When YAKACIK VALF Fire Hydrants are compared to one piece body hydrants, they are economically more advantageous. Since the upper body and the middle body are two seperate parts, it is cheaper to replace just the worn out part instead of whole one piece body.















ISO 9001-2008

QUALITY MANAGEMENT SYSTEM

AD 2000 - W 0

MANUFACTURING QUALIFIED CERTIFICATE

CE 2354PED 97/23 EC / III MODULE H

FIRE SAFE

FIRE SAFE

TPED 99 36

GOST

BALL VALVES - CAST STEEL PISTON VALVES - CAST STEEL

TRANSPORTABLE PRESSURE

ALL PRODUCTS