

فروش و تجهیز سیستمهای اعلام و اطفاء حریق

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Y-4020 INDICATING BUTTERFLY VALVE INSTALLATION

INSTRUCTION



Its produced for Fire protection system. They are defined as local control valves. Generally, they are used in water feed lines as interruption valves in order to separate (to control) zones in the location. Butterfly valves are used in order to shut off or to control the flow. The position of all valves in fire systems should be visible and electrically monitored. This butterfly valve type has a gearbox with handwheel. The supervisory switch is located inside the butterfly valve and includes also an on/off indicator.



ÖLÇÜLER Dimensions	ANMA BASINCI Nominal Pressure	21 Bar / 300 Psi							
	ANMA ÇAPI Nominal Diameter	DN	65	80	100	125	150	200	
	BOYUTLAR Dimensions [mm]	Α	97	107	117	138	152	178	
		В	135	145	152	174,5	188	222	
		С	84	84	84	110	110	156	
		D	Ø50	Ø50	Ø50	Ø100	Ø200	Ø200	
		Н	91	91	91	98	98	104	
		L	46	46	52	56	56	60	
		(ISO 5211) TEPE FLANŞ	F07	F07	F07	F07	F07	F07	
	AĞIRLIK Weight	Кg	5,1	6,9	7,80	11,50	13,60	21,60	



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18	INDICATOR/ İndikatör	STEEL (AISI A 252)				
17	NAME PLATE/ Etiket	STAINLESS STEEL				
16	GEAR BOX/ Dişli Kutusu					
15	GASKET/ Conta	EPDM				
14	SET SCREW/ Set Skur	STAINLESS STEEL / Paslanmaz				
13	KEY/ Kama	ALUMINIUM / Alüminyum				
12	BOLT/ Civata	STEEL GALVANIZED / Galvanizli Çelik Cıvata				
11	PREVENTING PLATE/ Baskı Sacı	ST-37				
10	SPRING LOCK WASHERS/ <i>Rondela</i>	DIN 127 M8				
9	BOLT/ Cıvata	STEEL GALVANIZED / Galvanizli Çelik Cıvata				
8	ORING/ Oring	EPDM				
7	UPPER STEM/ Üst Mil	AISI 304/Paslanmaz				
6	FLANGE GASKET/ Tesisat Contası	EPDM				
5	LOWER STEM/ Alt Mil	AISI 304/Paslanmaz				
4	ORING/ Oring	EPDM				
3	ORING NUT/ Oring Somunu	ST-40 JAN JAN ZINC COATED / ST-40 + Kaplama				
2	CLAPPER/ Klape	DUCTILE IRON+EPDM / Sfero (EN-GJS-400) +EPDM Kaplama				
1	BODY/ Gövde	DUCTILE IRON / Sfero (EN-GJS-400)				
PART NO / Parç	PART NAME/ Parça İsmi	Material/ Malzeme				





Installation Procedure

A. General Installation

The Y-4020 Wafer Type Butterfly Valves may be installed with flow in either direction and can be positioned either horizontally or vertically. In order to install the valve without mistake and damage tha valve ,Following

- Make sure the pipeline and pipe flange faces are clean. Any foreign material such as pipe scale, metal chips, welding slag, welding rods, etc., can obstruct disc movement or damage the disc or seat.
- Butterfly valves should be installed if possible, a minimum of 6 pipe diameters from other line elements, i.e. elbows, pumps, valves, etc. Sometimes this is not feasible, but it is important to achieve as much distance as possible.
- Where the butterfly valve is connected to a check valve or pump, keep enough space between them to ensure the disc does not interfere with the adjacent equipment.
- Duyar Y-4020 model Indicating Butterfly valve has own integral flange gasket .As a result, no Additional gaskets are required to install the valve.



INCORRECT INSTALLATION CORRECT INSTALLATION

Figure 1





3. Align the piping and then spread the pipe flanges a distance apart so as to permit the valve

body to be easily dropped between the flanges without contacting the pipe flanges



Figure 2

4. Insert the valve between the flanges as shown in figure 1, taking care not to damage the seat faces.

5. Place the valve between the flanges, center it, and then span the valve body with all flange bolts, but do not tighten the bolts. Carefully open the disc to the full open position, making sure the disc does not hit the adjacent pipe I.D. Now systematically remove jack bolts or other flange spreaders, and hand-tighten the flange bolts as shown in Figure 2 below. Very slowly close the valve disc to ensure disc edge clearance from the

Figure 3



adjacent pipe flange I.D. Now open the disc to full open and tighten all flange bolts per specification as shown in **Figure2** Finally, repeat a full close to full open rotation of the disc to ensure proper clearances.

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6.Electrical Circuit dygram

Conduit and electrical connections are to be made in accordance with the authority having jurisdiction and/ or the National Electrical Code. With reference to Figure 4, the supervisory switch is intended for connection to the supervisory circuit of a fire alarm control panel in accordance with NFPA 72. The auxiliary switch is intended for the unsupervised connection to auxiliary equipment in accordance with NFPA 70, National Electric Code.

Y-4020 INDICATING BUTTERFLY VALVE

VALVE IN CLOSED POSITION

ELECTRICAL CIRCUIT DIAGRAM





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