

## DISCHARGE NOZZLE 180° FEDRxx180

### Description

Its function is to discharge extinguishing agent inside the hazard area as homogeneously as possible to achieve efficient extinguishing.

They are screwed onto the discharge piping in a vertical position, with threads from 3/8" BSP to 2 1/2" BSP. The 180° nozzles have 7, outlet orifices at two levels. Each level has a different angle of discharge to improve gas distribution in the hazard area.

The 180° radial nozzles discharge the gas uniformly in half of a circle. The 180° nozzles are usually for installing along the walls of the hazard.

**These discharge nozzles have a limitation of maximum coverage area of 36.09 x 36.09 ft (11 x 11 m) for FM approvals.**

**These discharge nozzles does not have a limitation of maximum coverage area for UL approvals (NFPA).**



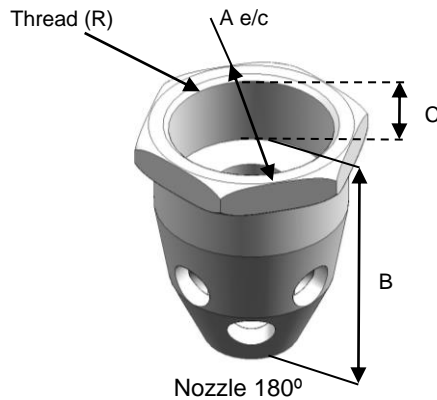
Nozzle 180°



### Technical information

Discharge nozzle FEDRxx180	
Material	Carbonated steel / Inox Steel AISI 303 and 316 / Aluminum * / Brass
Inlet and Outlet Finish	Zinc-niquel (Only the manufactured in carbonated steel)
Thread connection to the pipe (Female thread)	From 3/8" BSP to 2 1/2" BSP
Nozzle 180°	7 orifices at 2 levels
The threads connections comply with the International standards ISO 7-1 or ISO 228-1	YES
Approvals	UL-EX16320 FM-3054767

\* This is not part of the FM Approval, only UL Listed.



NOZZLES 180° - CARBONATED STEEL <sup>1</sup>						
MODEL	Thread connection (R)	No. of orifices	Orifices Ø In (mm)	Length Ex. A e/c In (mm)	Length B In (mm)	Length C In (mm)
FEDR10180	3/8" BSP	7	0.16 (4)	0.94 (24)	1.4 (35.5)	0.55 (14)
FEDR15180	1/2" BSP	7	0.22 (5.5)	1.18 (30)	1.66 (42.1)	0.63 (16)
FEDR20180	3/4" BSP	7	0.3 (7.5)	1.57 (40)	2.13 (54)	0.71 (18)
FEDR25180	1" BSP	7	0.35 (9)	1.81 (46)	2.32 (59)	0.75 (19)
FEDR32180	1 1/4" BSP	7	0.45 (11.5)	2.17 (55)	2.64 (67)	0.83 (21)
FEDR40180	1 1/2" BSP	7	0.55 (14)	2.36 (60)	2.87(73)	0.87 (22)
FEDR50180	2" BSP	7	0.71 (18)	2.83 (72)	3.43(87)	1.06 (27)
FEDR65180	2 1/2" BSP	7	0.71 (18)	3.35 (85)	3.54(90)	1.18 (30)

1- If you want high anti-corrosive coating add "CHN" to the nozzle code.

NOZZLES 180° - ALUMINUM* 2						
MODEL	Thread connection (R)	No. of orifices	Orifices Ø In (mm)	Length Ex. A e/c In (mm)	Length B In (mm)	Length C In (mm)
FEDR10180A	3/8" BSP	7	0.16 (4)	0.94 (24)	1.4 (35.5)	0.55 (14)
FEDR15180A	1/2" BSP	7	0.22 (5.5)	1.18 (30)	1.66 (42.1)	0.63 (16)
FEDR20180A	3/4" BSP	7	0.3 (7.5)	1.57 (40)	2.13 (54)	0.71 (18)
FEDR25180A	1" BSP	7	0.35 (9)	1.81 (46)	2.32 (59)	0.75 (19)
FEDR32180A	1 1/4" BSP	7	0.45 (11.5)	2.17 (55)	2.64 (67)	0.83 (21)
FEDR40180A	1 1/2" BSP	7	0.55 (14)	2.36 (60)	2.87(73)	0.87 (22)
FEDR50180A	2" BSP	7	0.71 (18)	2.83 (72)	3.43(87)	1.06 (27)
FEDR65180A	2 1/2" BSP	7	0.71 (18)	3.35 (85)	3.54(90)	1.18 (30)

2- If you want hard anodized coating add "AHA" to the nozzle code.

\* This is not part of the FM Approval, only UL Listed.

### NOZZLES 180° - BRASS

MODEL	Thread connection (R)	No. of orifices	Orifices Ø In (mm)	Length Ex. A e/c In (mm)	Length B In (mm)	Length C In (mm)
FEDR10180B	3/8" BSP	7	0.16 (4)	0.94 (24)	1.4 (35.5)	0.55 (14)
FEDR15180B	1/2" BSP	7	0.22 (5.5)	1.18 (30)	1.66 (42.1)	0.63 (16)
FEDR20180B	3/4" BSP	7	0.3 (7.5)	1.57 (40)	2.13 (54)	0.71 (18)
FEDR25180B	1" BSP	7	0.35 (9)	1.81 (46)	2.32 (59)	0.75 (19)
FEDR32180B	1 1/4" BSP	7	0.45 (11.5)	2.17 (55)	2.64 (67)	0.83 (21)
FEDR40180B	1 1/2" BSP	7	0.55 (14)	2.36 (60)	2.87(73)	0.87 (22)
FEDR50180B	2" BSP	7	0.71 (18)	2.83 (72)	3.43(87)	1.06 (27)
FEDR65180B	2 1/2" BSP	7	0.71 (18)	3.35 (85)	3.54(90)	1.18 (30)

### NOZZLES 180° - INOX STEEL AISI 303

MODEL	Thread connection (R)	No. of orifices	Orifices Ø In (mm)	Length Ex. A e/c In (mm)	Length B In (mm)	Length C In (mm)
FEDR10180I	3/8" BSP	7	0.16 (4)	0.94 (24)	1.4 (35.5)	0.55 (14)
FEDR15180I	1/2" BSP	7	0.22 (5.5)	1.18 (30)	1.66 (42.1)	0.63 (16)
FEDR20180I	3/4" BSP	7	0.3 (7.5)	1.57 (40)	2.13 (54)	0.71 (18)
FEDR25180I	1" BSP	7	0.35 (9)	1.81 (46)	2.32 (59)	0.75 (19)
FEDR32180I	1 1/4" BSP	7	0.45 (11.5)	2.17 (55)	2.64 (67)	0.83 (21)
FEDR40180I	1 1/2" BSP	7	0.55 (14)	2.36 (60)	2.87(73)	0.87 (22)
FEDR50180I	2" BSP	7	0.71 (18)	2.83 (72)	3.43(87)	1.06 (27)
FEDR65180I	2 1/2" BSP	7	0.71 (18)	3.35 (85)	3.54(90)	1.18 (30)

### NOZZLES 180° - INOX STEEL AISI 316

MODEL	Thread connection (R)	No. of orifices	Orifices Ø In (mm)	Length Ex. A e/c In (mm)	Length B In (mm)	Length C In (mm)
FEDR10180I316	3/8" BSP	7	0.16 (4)	0.94 (24)	1.4 (35.5)	0.55 (14)
FEDR15180I316	1/2" BSP	7	0.22 (5.5)	1.18 (30)	1.66 (42.1)	0.63 (16)
FEDR20180I316	3/4" BSP	7	0.3 (7.5)	1.57 (40)	2.13 (54)	0.71 (18)
FEDR25180I316	1" BSP	7	0.35 (9)	1.81 (46)	2.32 (59)	0.75 (19)
FEDR32180I316	1 1/4" BSP	7	0.45 (11.5)	2.17 (55)	2.64 (67)	0.83 (21)
FEDR40180I316	1 1/2" BSP	7	0.55 (14)	2.36 (60)	2.87(73)	0.87 (22)
FEDR50180I316	2" BSP	7	0.71 (18)	2.83 (72)	3.43(87)	1.06 (27)
FEDR65180I316	2 1/2" BSP	7	0.71 (18)	3.35 (85)	3.54(90)	1.18 (30)

WARNING: This type of Discharge nozzle 180° FEDRxx180 is manufactured and approved to be used in fixed extinguishing with CO2 Gas. This product is not designed for other use or purpose. If product user has any doubt regarding the application or product use, please contact +34 947 28 11 08. Every not approved use or application or / and any other not approved modification of the product or its function may cause serious accidents or / and personal damages. SIEX 2001 S.L. is not responsible for any non-approved use of the application.

IMPORTANT: SIEX 2001 S.L. reserves the right to change or modify without previous notice any data or specification due to changes or modification in order to improve the products presented.