TAWREED

TAWREED TRADING & CONTRACTING · DUCT FACTORY IN QATAR SINCE 2012

TECHNICAL DATA SHEET // DAMPERS

Non-Return Damper

دمبر عدم رجوع

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01 Description & dimensions

02 Pressure drop

DOCUMENT

3 pages, extracted from:
Technical Submittal - GI Duct, p. 21–22
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CONTACT · REQUEST A QUOTE

Phone / WhatsApp: +974 7097 0111 Email: hvac@tawreed.ltd
Factory: Zone 91, Street 3138, Building 66, Birkat Al Awamer, Qatar
Web: tawreed.ltd Hours: Sat–Thu, 9am–5pm

Data supplied for submittal and specification purposes. Values are nominal; confirm project-specific requirements with Tawreed before ordering.

NON RETURN DAMPERS



Non return damper
(duct mounted)



Non return damper
(wall mounted)

DESCRIPTION

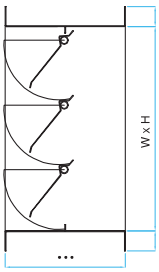
- Non return/pressure relief dampers are designed for use in intake and discharge opening in commercial and residential air conditioning systems.
- When the ventilation system is on, the blades of the non-return damper are held in the open position by the airflow.
- If the system is switched off, the damper blades close automatically, thus preventing reverse airflow and giving protection against the ingress of untem-pered air, rain and birds into theair conditioning system.

CONSTRUCTION :

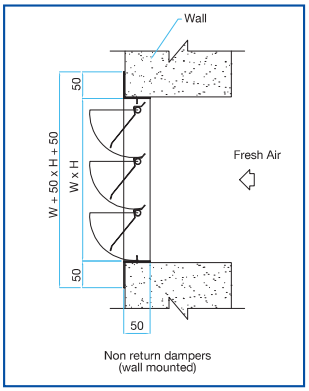
Option :

â•¢ Gasket is Provided on blade for low leakage.

DIMENSIONS (mm) - PRESSURE DROP



Non return dampers
(duct mounted)



Non return dampers
(wall mounted)

NON RETURN DAMPERS

LEAKAGE PERFORMANCE

FOR LOW LEAKAGE CONSTRUCTION

Static Pressure Drop (Pa)	Static Pressure Drop (in WC)	NRD Leakage (CFM)	Leakage Per Sq Ft (CFM/Sqft)
101	0.4	0	0
184	0.7	0	0
220	0.9	0	0
285	1.1	0	0
335	1.3	0	0
415	1.7	0	0
470	1.9	0	0
570	2.3	0	0
630	2.5	13.11	1.22
740	3.0	13.11	1.22
810	3.3	13.11	1.22
930	3.8	24.16	2.24
1020	4.1	24.16	2.24
1150	4.6	42.70	3.97

TESTING DONE ON A 1000 X 1000 MM NON-RETURN DAMPER

TECHNICAL PRESSURE DROP

