

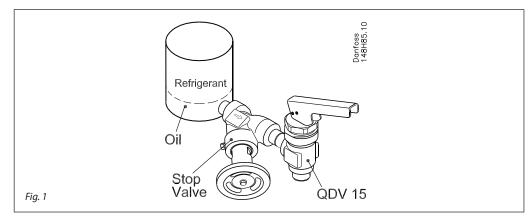
# **Technical brochure**

# Quick closing oil drain valve QDV



#### Features

- Applicable to R717 (ammonia).
- Meets the safety demands within industrial refrigeration
- Handle can be positioned 360°
- Built-in integral relief device opening over 16 bar g (proventing hydraulic pressure building up between stop valve and QDV).
- Can be supplied together with a stop valve for quick on site mounting (fig. 1).
- Max. operating pressure: 40 bar g (580 psi g).
- Temperature range: -50/+150°C (-58/+302°F).
- Classification: To get an updated list of certification on the products please contact your local Danfoss Sales Company.



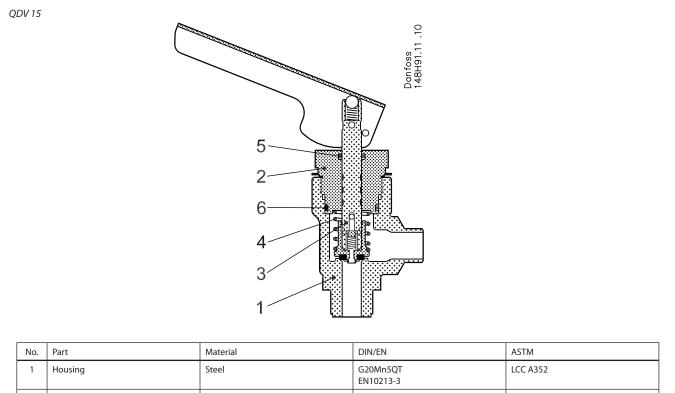


## Quick closing oil drain valve, type QDV 15

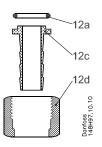
Design	Connections Available with the following connections: Inlet: Welding DIN (EN 10220) ½ in. FPT ¾ in. FPT	<i>QDV - SVA combinations</i> Combinations of the QDV together with a dedicated SVA have been established for easy selection. Please study page 6 to find the code numbers for these combinations.
	<ul> <li>Outlet: G ¾ in. pipe thread (ISO 228/1)</li> <li>½ in. FPT</li> <li>¾ in. FPT</li> </ul>	Installation For further information refer to installation instruction for QDV.
	Optional extras for outlet: - Welding nipple DIN (EN 10220) - Hose connection	
	Other types of connection are available on request.	
Technical data	<ul> <li>Refrigerants Applicable to R717 (ammonia).</li> <li>QDV is a backpressure dependent valve. If any tube or hose is mounted on the outlet of the QDV it has to be calculated to prevent blackpressure building up when relieving.</li> <li>For further information please see installation instruction for QDV. Flammable hydrocarbons are not recommended, for further information please contact your local Danfoss Sales Company.</li> </ul>	<ul> <li>Temperature range -50/+150°C (-58/+302°F).</li> <li>Pressure The valve is designed for: Maximum operating pressure of 40 bar g (580 psi g)</li> </ul>

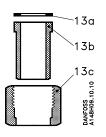


## Material specification



1	Housing	Steel	G20Mn5QT EN10213-3	LCC A352
2	Bonnet	Steel St37-2	S235JR EN 10025	AISI 1015
3	Spindle/Cone	Stainless steel X10CrNiS18-9	S189 EN 10088-3	AISI 303
4	Spring	Steel		
5	O-ring	Cloroprene		
6	O-ring	Cloroprene		





#### Hose connection for outlet

No.	Part	Material
12a	O-rings	Cloroprene (Neoprene)
12c	Stub for hose - OD Ø15 mm	Steel
12d	Union nut - G ¾"	Steel

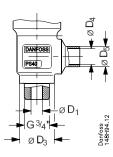
## Welding nipple connection for outlet

No.	Part	Material
13a	Al-packing	Aluminium
13b	Welding nipple - OD Ø21.3 mm	Steel (S235JR)
13c	Union nut - G ¾"	Steel

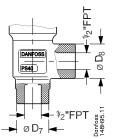


## Quick closing oil drain valve, type QDV 15

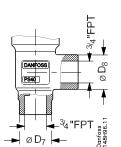
## Connections



		ØD <sub>1</sub>	ØD <sub>3</sub>	ØD <sub>4</sub>	ØD <sub>5</sub>
QDV 15 DIN 15	mm	12	36.5	16.7	21.3
	in.	0.47	1.44	0.66	0.84



		ØD <sub>7</sub>	ØD <sub>8</sub>
	mm	34	36.5
QDV 15 ½" FPT	in.	1.34	1.44



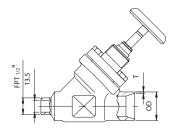
DANFOS

(**PS40**)

G<sup>3</sup>/4"+ øD<sub>3</sub>

		ØD <sub>7</sub>	ØD <sub>8</sub>
	mm	34	36.5
QDV 15 ¾" FPT	in.	1.34	1.44

		ØD1	ØD <sub>3</sub>	ØD <sub>8</sub>
	mm	12	36.5	34
QDV 15 DIN 15	in.	0.47	1.44	1.34

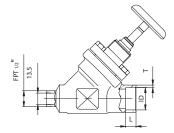


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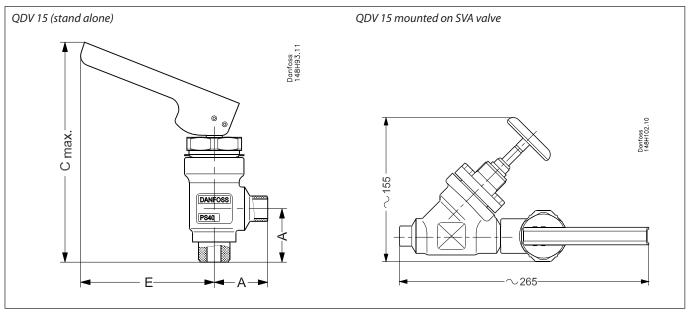
		OD	Т	k <sub>v</sub> -straight m³/h	C <sub>v</sub> -straight USgal/min
SVA-ST DIN 15	mm	21.3	2.3	4.9	5.7
SVA-SI DIN 15	in.	0.839	0.091	4.9	5./



		ID	Т	L	k <sub>v</sub> -straight m³∕h	C <sub>v</sub> -straight USgal/min
SVA-ST SOC ½ in.	mm	21.8	6.0	10	4.9	5.7
SVA-ST SOC /2 III.	in.	0.858	0.235	0.39	4.9	



#### Dimensions



Valve size		A C <sub>max</sub>		E
	mm	45	185	109
QDV 15	in.	1.77	7.28	4.29

#### Ordering

## How to order

The table below is used to identify the valve required.

Туре	Inlet	Outlet	Code no.
QDV 15 DN 15	DN 15	G ¾ in.	148H3272
QDV 15 ½ in. FPT	½ in. FPT	½ in. FPT	148H3273
QDV 15 <sup>3</sup> / <sub>4</sub> in. FPT	¾ in. FPT	¾ in. FPT	148H3274
QDV 15 DN 15 + SVA-ST DN 15 H-WHEEL*	DN 15	G ¾ in.	148H3310
QDV 15 1/2 in. FPT + SVA-ST SOC 1/2 in. H-WHEEL*	½ in. SOC	½ in. FPT	148H3311
Fittings for hose connection - G ¾"			148H3451
Fittings for welding connection - G ¾"			148H3452

Two valves are supplied in one box and should be mounted on site. The indicated inlet is for the stop valve - The indicated outlet is for the oil drain valve.

Important!

\*

Where products need to be certified according to specific certification societies or where higher pressures are required, the relevant information should be included at the time of order.







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