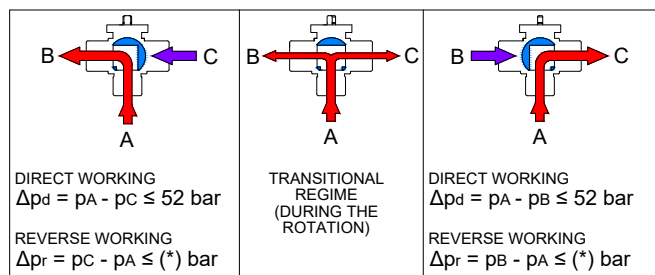


2 and 3 ways ball valve for HVAC-R systems.

This new shut-off valve is the result of a consolidated experience in applications with HFC, HFO, HC. The main technical features of this valve are the high energy efficiency and the optimum pressure tightness, both results have been obtained through the choice of innovative and high quality materials. Applications are: heat pumps, air conditioning units, chillers.

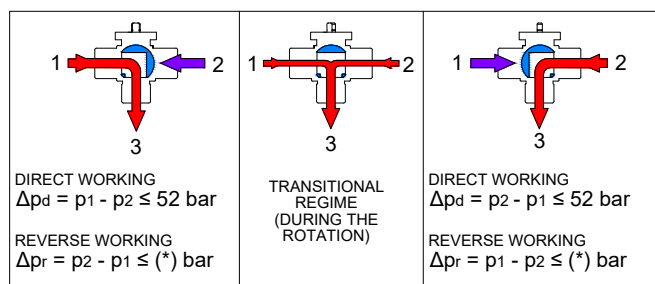
## ■ MAXIMUM DIFFERENTIAL PRESSURE IN DIVERTING VALVE

Flowrate enters the central way. Pressures are  $p_A$ ,  $p_B$ ,  $p_C \leq 52$  bar

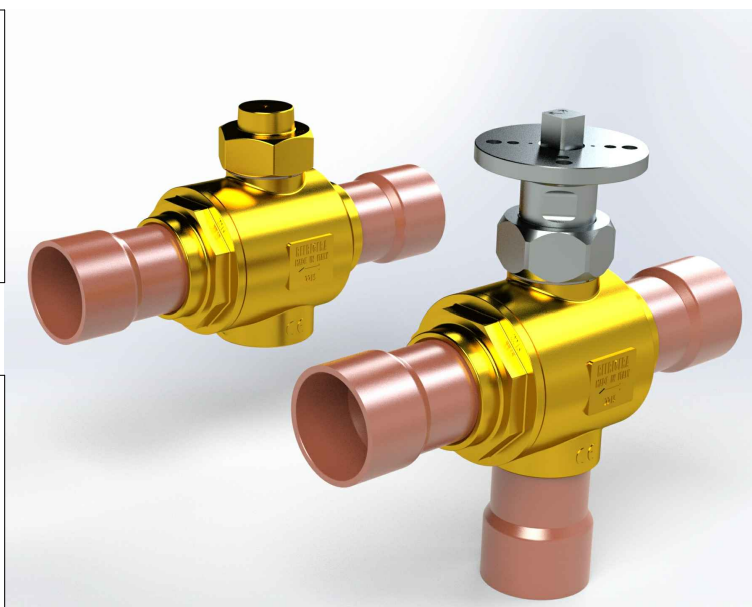


## ■ MAXIMUM DIFFERENTIAL PRESSURE IN MIXING VALVE

Flowrate enters the side ways. Pressures are  $p_1$ ,  $p_2$ ,  $p_3 \leq 52$  bar



(\*) Values to be checked through hydraulic test on the ball valve ports. Available soon.




NO.G25012023

## ■ MAIN FEATURES

- These new valves have been designed with the use of high performance materials for a perfect internal tightness in any application. New generation technopolymers guarantee high mechanical and thermal resistance, which combined with a low rotation torque enable to achieve high results in terms of energy efficiency.
- The valves are suitable for the applications in liquid, suction and hot gas lines in Refrigeration and air conditioning Systems.
- The 2 ways valves are suitable for the applications where a bidirectional flow is required.
- Functional tests are executed on 100% of the produced ball valves by using a proper high pressure system.

## ■ SPECIFICATIONS

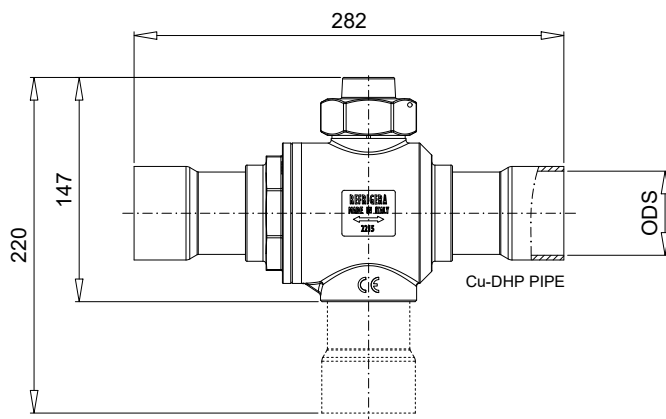
Refrigerants	HFC, HFO, HC
List	R1233zd, R1234ze, R32, R113, R114, R134a, R142b, R152a, R227ea, R404A, R407A, R407B, R407C, R407F, R410A, R417A, R422A, R422D, R427A, R448A, R449A, R449B, R450A, R452A, R454B, R454C, R513A, R401A, R408A, R409A, R507 R290, R600, R600a
Media temperature range	- 40 °C + 150 °C
Maximum working pressure (PS)	52 bar ( 754 psig ) [45 bar ( 653 psig) for 64 mm and 2"5/8]
Maximum test pressure	PS x 1,43
Oils	POE, PAG
Valve Body	G-TYPE
Approvals	 2014 / 68 / UE PED

## ■ CONNECTIONS SIZE AND OVERALL DIMENSIONS

The valves are available with standard Cu-DHP ODS connections.

	CONNECTIONS SIZE		Kv (ON-OFF)	
	mm	in	2 way	3 way
	54	2-1/8	273	56
ODS Cu-DHP	64		-	-
		2-5/8	-	-

(-) Available soon.

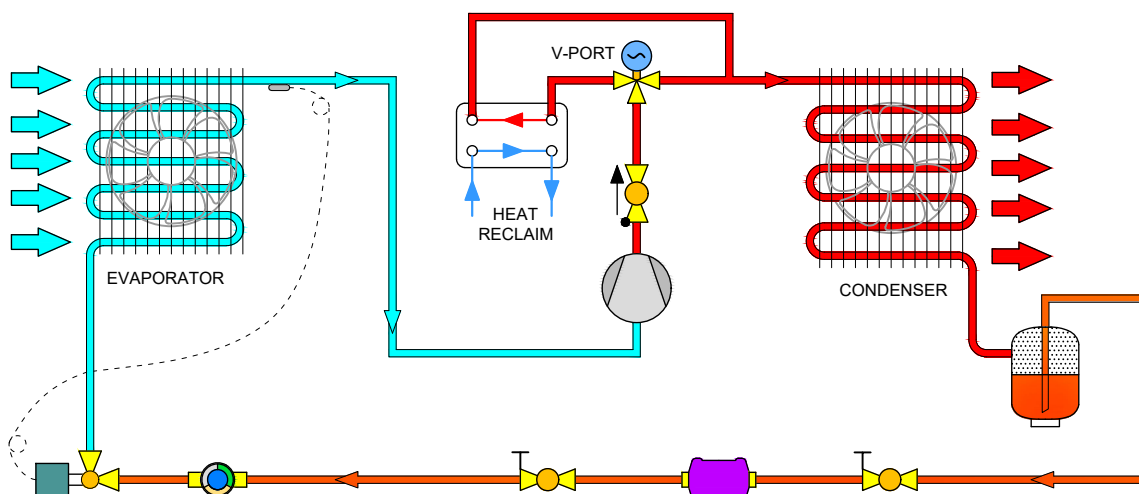


## ■ MOTORIZATION

All Refrigera valves are suitable for actuators. The junction kit is hermetically sealed according to EN 14903 Standard and connects valve and actuator through an ISO 5211 F05, F07 flange with a square 14 or 17 spindle.

## ■ HEAT RECLAIM

The 3 way ball valve can be used coupled to a ( 0 ÷ 10 Vcc ) actuator in application of reclaiming the heat.



## ■ WORKING AS MODULATING VALVE ( V-PORT )

The ball has a V-shaped hole in order to supply a better and more accurate flow regulation (following an exponential curve).

The modulating servomotor is controlled by a signal type ( 0 ÷ 10 Vcc ) or ( 4 ÷ 20 mA ) that stops the rotation of the ball with an angle depending on the pilot signal intensity.

