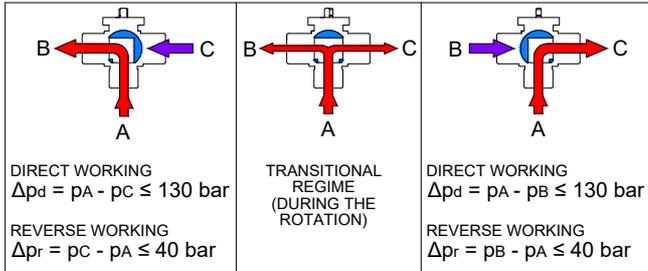


2 and 3 ways stainless steel ball valve for HVAC-R systems.

This new shut-off valve is the result of a consolidated experience in applications with R744 in the transcritical cycle. 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.

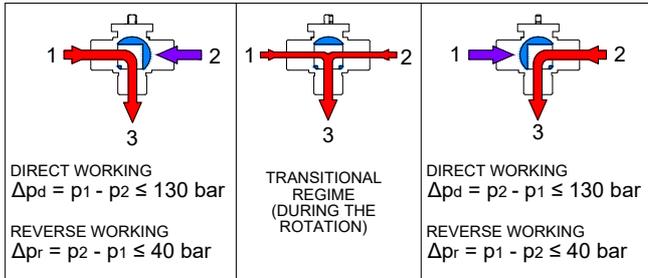
■ MAXIMUM DIFFERENTIAL PRESSURE IN DIVERTING VALVE

Flowrate enters the central way. Pressures are $p_A, p_B, p_C \leq 130$ bar



■ MAXIMUM DIFFERENTIAL PRESSURE IN MIXING VALVE

Flowrate enters the side ways. Pressures are $p_1, p_2, p_3 \leq 130$ bar



■ 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 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.

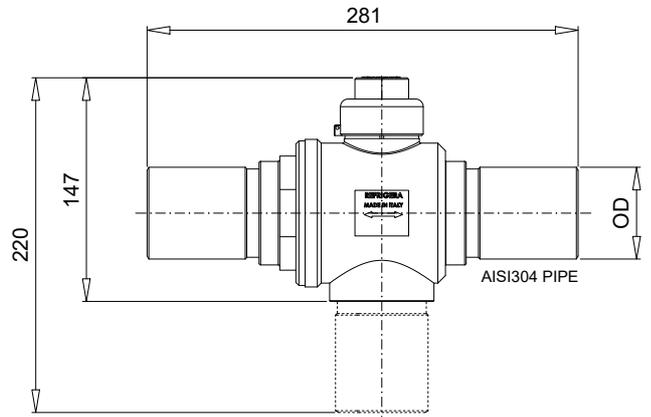
■ SPECIFICATIONS

Refrigerants	R744 (transcritical)
Media temperature range	- 40 °C + 150 °C
Maximum working pressure (PS)	130 bar (1885 psig)
Maximum test pressure	PS x 1,43
Oils	POE, PAG
Valve Body	Q-TYPE
Approvals	 2014 / 68 / UE PED

CONNECTIONS SIZE AND OVERALL DIMENSIONS

The valves are available with AISI304 stainless steel OD connections.

	CONNECTIONS SIZE		Kv (ON-OFF)	
	mm	in	2 way	3 way
OD AISI304	60,3 (DN50)	2	201	55

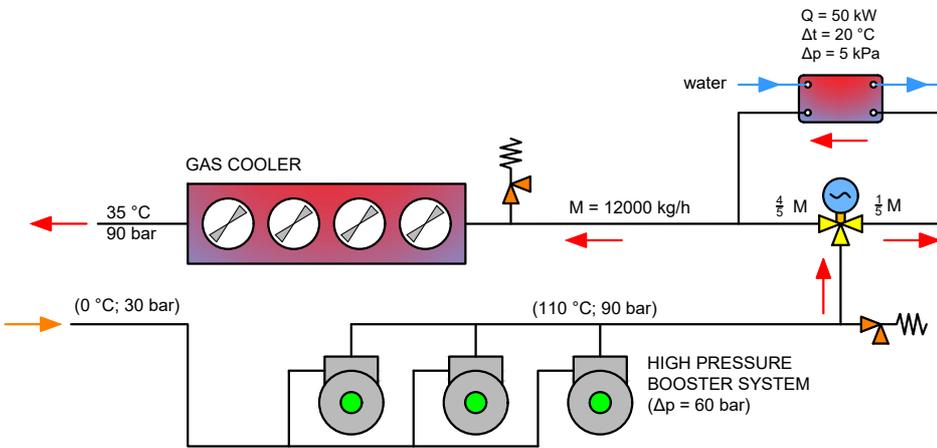


MOTORIZATION

All Refrigerera 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.

WORKING FOR RECLAIMING THE HEAT OF THE GAS COOLER

The three-ways ball valve can be used coupled to a (0 ÷ 10 Vcc) actuator in application of reclaiming the heat of gas cooler.



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.

