

CHANGEOVER VALVES HIGH PERFORMANCE 3032 ORS SERIES



CASTEL PROPOSES A WIDE RANGE OF CHANGEOVER VALVES HIGH PERFORMANCE 3032 ORS SERIES WITH SWIVELS COMPATIBLE WITH REFRIGERANTS HFC, HFO, HC AND CO2.

Changeover valves 3032 ORS series with swivels allow for the management of a pair of safety valves, enabling the isolation of one valve while the other remains active. This system facilitates maintenance operations, such as inspections or replacements, while the system is operative and ensuring overall safety.

WHY CHOOSE NEW CHANGEOVER VALVES

Easy and Quick Installation: One of the most appreciated advantages of Changeover Valves with swivels is their simple and quick installation. Thanks to a compact design studied to facilitate assembly, even the replacement of safety valves becomes quick and safe.

Flexibility and Mobility: The inlet and outlet swivels on the Changeover Valves offer great freedom of movement. This allows both the Changeover Valves and the safety valves to be oriented precisely.

KEY BENEFITS



HIGH FLOW
CAPACITY



LOW PRESSURE
DROP



NO ORIENTATION
PROBLEMS



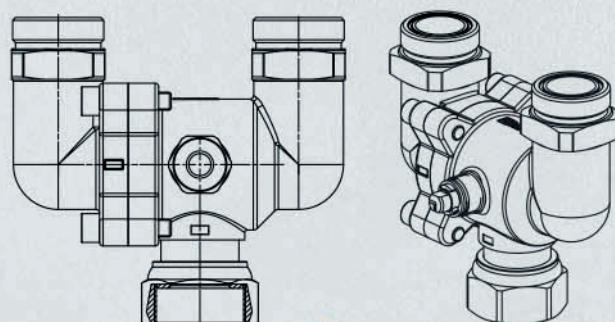
COMPACT
DESIGN



EASY TO
DISMANTLE



LOW COST
OF INSTALLATION



TECHNICAL DATA

- MAXIMUM WORKING PRESSURE
PS 150 BAR
- MINIMUM/MAXIMUM WORKING
TEMPERATURE TS -40/+150°C
- INLET CONNECTIONS 1.1/4" ORS
TO 1.1/2" ORS
- BODY STAINLESS STEEL MATERIAL
- OUTLET CONNECTIONS
1/2" TO 1.1/4" NPT
- CERTIFICATION PED-CE and UL



INSTALLATION FLEXIBILITY

Choosing a Changeover Valve 3032 ORS with swivels means opting for a solution that combines efficiency and ease of installation.



AVAILABLE ADAPTERS



**Threaded adapters
ORS x NPT**
for liquid receivers and
exchangers installation



**ORS x ODS/ODM
adapters for**
remote installation

COMPATIBLE CONFIGURATIONS

Installation of safety valves with NPT connections.



Safety Valves
with NPT
connections

Adapters
series 3039

Changeover
3032 ORS

Adapters
series 3036

Direct installation of safety valves with ORS connections.



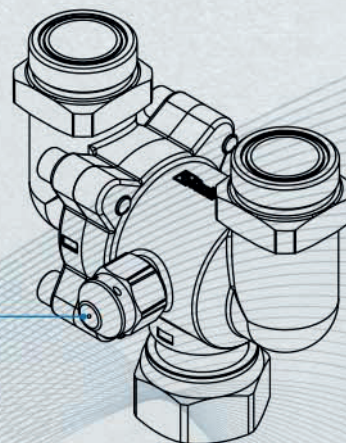
Safety Valves
with ORS
connections

Changeover
3032 ORS

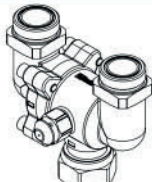
Adapters
series 3036

SAFETY SEAL

Plug with holes
for installation
of a safety seal



CHANGEOVER VALVES - APPROVED BY UNDERWRITERS LABORATORIES INC.


Drawing	Part number	Connections		Kv	PS	MWP	TS [C°]	
		IN swivel female	OUT swivel male	[m ³ /h]	[bar]	[psi] (1)	min.	max.
	3032*/10100RS	1.1/4" ORS	1.1/4" ORS	22	50 (N) 150 (E)	725 (N) 2175 (E)	-50	+150
	3032*/12120RS	1.1/2" ORS	1.1/2" ORS	29				

* Suffix N : products for HFC,HFO and HC

* Suffix E : products for CO₂

COUPLE OF CONNECTIONS FOR ORS CHANGEOVER VALVES AND SAFETY VALVES

Drawing	Part number	Connections		Material	For safety valves
		IN female	OUT		
	3039/106	1.1/4" ORS	3/4" NPT	Stainless steel	3030/66C; 3065/6C; 3030E/610C
	3039/108	1.1/4" ORS	1" NPT		3030/88C
	3039/1010	1.1/4" ORS	1.1/4" NPT		
	3039/128	1.1/2" ORS	1" NPT		3030/88C
	3039/1210	1.1/2" ORS	1.1/4" NPT		
	3039/1212	1.1/2" ORS	1.1/2" NPT		

ADAPTERS FOR LIQUID, EXCHANGER AND REMOTE INSTALLATION

Drawing	Part number	ORS	NPT (1)	ODS (2)		ODM (2)		For changeover
				Ø [in.]	Ø [mm]	Ø [in.]	Ø [mm]	
	3036/1010	1.1/4" ORS	1.1/4" NPT	-	-	-	-	3032*/10..ORS
	3036/10M42	1.1/4" ORS	-	-	42	-	-	3032*/10..ORS
	3036/1212	1.1/2" ORS	1.1/2" NPT	-	-	-	-	3032*/12..ORS
	3036/1217	1.1/2" ORS	-	-	54	-	-	3032*/12..ORS

(1) Adapter NPT connection

(2) Adapter ODS connection

SAFETY VALVES

Drawing	Part number	Connections		Orifice section	Discharge coefficient Kd	Set pressure range	PS	TS [C°]	
		IN female	OUT	[mm ²]		[bar]	[bar]	min.	max.
	3030/88ORS	1" ORS	1.1/4" G	298	0,83	8 - 50	55	-50	+150
	3030/10100RS	1.1/4" ORS	1.1/4" G	298	0,83	8 - 50	55		

POLYHEDRA

GO GREEN
R744 • NATURAL REFRIGERANT



Castel has always been aware of environmental sustainability issues and gives its contribution to a cleaner environment, supplying the refrigeration and air conditioning industry with state-of-the-art and environment-friendly technology. With its commitment and steady research in its laboratories, Castel has developed a whole range of products using natural refrigerants, which reduce emissions to the minimum. The large range of products belonging to the Castel "GoGreen" line has been developed to be used in CO₂ (R744) filled systems.

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