



## Bourdon Tube Pressure Gauges DR 80

<b>Application</b>	For refrigeration compressors, both for suction and pressure applications
<b>Pressure ranges</b>	According to the used cooling agents
<b>Range of application</b>	For static pressure 100%, for dynamic pressure 90% of full scale
<b>Accuracy</b>	Cl. 1.0 according to DIN 16005 / EN 837-1
<b>Design</b>	DIN 16064 / EN 837-1
<b>Movement</b>	Brass (for organic cooling agents) Stainless steel (for inorganic cooling agents – NH <sub>3</sub> )
<b>Dial</b>	White, pressure scale black temperature scale coloured DIN 16112, 16125
<b>Pointer</b>	Aluminium, black DIN 16099
<b>Case</b>	With Buna-N Rubber frontring
<b>Window</b>	Normal glass; polycarbonate for gauges fitted with auxiliary units with adjusting device, only with organic cooling agents
<b>Damping liquid</b>	Glycerine 86%, with DRO Without liquid, with DR
<b>Protection</b>	IP 54 (EN 60529 / IEC 529) with DR IP 65 (EN 60529 / IEC 529) with DRO



### Selection chart

<b>Ordering code</b>	DRx 80 / xxx.xxx
<b>System design</b>	
Standard	DR
with filling	DRO
<b>Nominal size</b>	
NS 80	80
<b>Case</b>	
Steel, black	3
Stainless steel 1.4301, brush finish.	4
<b>Structural shape</b>	
Direct mounting, without flange	1
Panel mounting A	2
Wall mounting, 3 brackets	3
Panel mounting, narrow flange with fixation elements	5
<b>Connection</b>	
radial	1
eccentric back	3
<b>Indicator</b>	
Standard	1
<b>Measuring elements</b>	
for organic cooling agents, Cu alloy	11
for inorganic cooling agents (NH <sub>3</sub> )	
Stainless steel 1.4571	33

**Special designs and auxiliary units**  
For special designs see D1.901

## Selection Chart

Range							
Cooling agent	Suction side Order		Pressure side Order		Pressure side Order		
	No.	Range	No.	Range	No.	Range	
R 011	110	- 1 ... + 1.5 bar - 30 ... + 40 °C	130	- 1 ... + 3 bar - 30 ... + 60 °C			
R 012	180	- 1 ... + 9 bar - 60 ... + 40 °C	270	- 1 ... + 15 bar - 60 ... + 60 °C	350	- 1 ... + 24 bar - 60 ... + 80 °C	
R 12 B1	160	- 1 ... + 5 bar - 30 ... + 50 °C	280	- 1 ... + 15 bar - 30 ... + 95 °C			
R 13	190	- 1 ... + 12.5 bar overpr. safe. 2 fold - 120 ... - 15 °C	290	- 1 ... + 24 bar overpr.safe 1.6 fold - 100... + 5 °C	360	- 1 ... + 40 bar - 80 ... + 25 °C	
R 13 B1	200	- 1 ... + 12.5 bar overpr. safe 2 fold - 80 ... + 10 °C	310	- 1 ... + 24 bar - 80 ... + 40 °C			
R 21	140	- 1 ... + 5 bar - 40 ... + 55 °C	250	- 1 ... + 12.5 bar - 10 ... + 100 °C			
R 22	210	- 1 ... + 12.5 bar - 60 ... + 30 °C	320	- 1 ... + 24 bar - 60 ... + 60 °C	370	- 1 ... + 40 bar - 30 ... + 80 °C	
R 113	120	- 1 ... + 1.5 bar - 30 ... + 75 °C	170	- 1 ... + 5 bar - 30 ... + 110 °C			
R 114	150	- 1 ... + 5 bar - 40 ... + 55 °C	260	- 1 ... + 12.5 bar - 10 ... + 95 °C	380	- 1 ... + 24 bar - 10 ... + 130 °C	
R 123	400	- 1 ... + 1.5 bar - 30 ... + 55 °C	410	- 1 ... + 3 bar - 30 ... + 70 °C			
R 134 A	420	- 1 ... + 9 bar - 60 ... + 39 °C	440	- 1 ... + 24 bar - 60 ... + 77 °C	450	- 1 ... + 40 bar - 40 ... + 100 °C	
R 402 A	530	- 1 ... + 12.5 bar - 100 ... + 23 °C	540	- 1 ... + 24 bar - 100... + 50 °C			
R 404 A	460	- 1 ... + 12.5 bar - 50 ... + 28 °C	470	- 1 ... + 24 bar - 50 ... + 50 °C			
R 500	240	- 1 ... + 12.5 bar - 40 ... + 40 °C	340	- 1 ... + 24 bar - 40 ... + 70 °C			
R 502	220	- 1 ... + 12.5 bar - 60 ... + 30 °C	330	- 1 ... + 24 bar - 60 ... + 55 °C	390	- 1 ... + 40 bar - 40 ... + 80 °C	
R 22	500	- 1 ... + 9 bar	520	- 1 ... + 24 bar	510	- 1 ... + 15 bar	
R 12		overpr.safe 2fold - 60 ... + 20 °C - 60 ... + 40 °C		- 60 ... + 60 °C - 40 ... + 83 °C		- 60 ... + 40 °C - 60 ... + 60 °C	
R 22	600	- 1 ... + 9 bar	620	- 1 ... + 24 bar	610	- 1 ... + 15 bar	
R 12		overpr.safe 2fold		- 60 ... + 60 °C		- 60 ... + 40 °C	
R 502		- 60 ... + 20 °C - 60 ... + 40 °C - 60 ... + 15 °C		- 40 ... + 83 °C - 60 ... + 55 °C		- 60 ... + 60 °C - 60 ... + 35 °C	
R 134 A	640	- 1 ... + 12.5 bar	650	- 1 ... + 24 bar			
R 404 A		- 60 ... + 50 °C - 50 ... + 28 °C		- 60 ... + 77 °C - 50 ... + 50 °C			
NH <sub>3</sub> (R 717)	230	- 1 ... + 12.5 bar - 60 ... + 30 °C	300	- 1 ... + 24 bar r.m. at 16 bar - 60 ... + 50 °C			

other cooling agents on request