



Better by degrees



R744

CO₂ COMPATIBLE PARTS LIST

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Shown in the following pages is a range of products that are available through HRP that are compatible with CO₂ (R744)

Where applicable we have indicated the maximum working pressure of each component however if in any doubt please consult the HRP Technical Support Team on 01359 270888.

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Refrigeration Quality Copper Tube Range for CO₂



Copper tube supplied by HRP conforms to EN 12735-1.

HRP copper tube is designed specifically for refrigeration and air conditioning use and is cleaned, nitrogen purged and capped.

Tube is supplied in 3 material temper conditions according to EN 1173.

Soft Coils : 220 N/mm²

Half Hard Straight Lengths: R250 N/mm²

Hard Straight Lengths: R290 N/mm²

All copper tube supplied by HRP complies with the requirements of the Pressure Equipment Directive

Copper Straight Lengths - Half Hard (R250)

(Values shown in this table are for un-annealed tube)

	HRP Codes		Recommended Safe Working Pressure (Bar)					
			Suction Line 50°C		Liquid Line 100°C		Discharge Line 150°C	
			Straight bar	Formed bar	Straight bar	Formed bar	Straight bar	Formed bar
	3M	6M						
3/8" X 21G COPPER STRAIGHT	143082	143084	103	82	98	78	91	73
1/2" X 20G COPPER STRAIGHT	143086	143088	85	68	81		76	61
1/2" X 18G COPPER STRAIGHT	-	143089	110	89	104	84	97	78
5/8" X 20G COPPER STRAIGHT	143090	143092	67	54	64	52	60	48
5/8" X 18G COPPER STRAIGHT	-	143094	86	69	82	66	77	61
5/8" X 16G COPPER STRAIGHT	-	143095	118	94	112	90	105	84
3/4" X 18G COPPER STRAIGHT	143096	143098	71	57	68	54	63	50
3/4" X 6M 16G COPPER STRAIGHT	-	143100	97	77	92	74	86	69
3/4" X 6M 14G COPPER STRAIGHT	-	143101	123	98	117	93	109	87
7/8" X 18G COPPER STRAIGHT	143102	143104	60	48	58	46	54	43
7/8" X 16G COPPER STRAIGHT	-	143106	82	66	78	62	73	58
7/8" X 12G COPPER STRAIGHT	-	143107	139	111	132	106	123	99
1.1/8" X 18G COPPER STRAIGHT	143108	143110	47	37	44	36	41	33
1.1/8" X 16G COPPER STRAIGHT	143112	143114	63	50	60	48	56	44
1.1/8" X 14G COPPER STRAIGHT	-	143116	80	64	76	61	71	56
1.1/8" X 11G COPPER STRAIGHT	-	143117	119	95	113	90	106	84
1.3/8" X 18G COPPER STRAIGHT	143118	143120	38	30	36	29	34	27
1.3/8" X 16G COPPER STRAIGHT	143122	143124	51	41	48	39	45	36
1.3/8" X 14G COPPER STRAIGHT	-	143125	64	52	61	49	57	46
1.3/8" X 12G COPPER STRAIGHT	-	143126	85	68	81	65	76	60
1.3/8" X 9G COPPER STRAIGHT	-	143127	121	97	115	92	107	86
1.5/8" X 16G COPPER STRAIGHT	143132	143134	43	34	41	33	38	30
1.5/8" X 14G COPPER STRAIGHT	143135	143137	54	43	51	41	48	38
1.5/8" X 12G COPPER STRAIGHT	-	143139	71	57	68	54	63	51
1.5/8" X 11G COPPER STRAIGHT	-	143136	80	64	76	61	71	57

Copper Coils - Soft (R220)

(Values shown in this table are for annealed tube)

	HRP Codes			Recommended Safe Working Pressure (Bar)					
				Suction Line 50°C		Liquid Line 100°C		Discharge Line 150°C	
				Straight bar	Formed bar	Straight bar	Formed bar	Straight bar	Formed bar
	6M	15M	30M						
1/4" X 22G COPPER COIL	143040	143044	143046	91	73	89	71	76	61
3/8" X 21G COPPER COIL	143049	143052	143054	68	54	66	53	56	45
1/2" X 21G COPPER COIL	143055	143058	143060	50	40	49	39	41	33
5/8" X 20G COPPER COIL	143061	143064	143066	42	34	41	33	35	28

The recommended safe working pressures in the tables have been calculated in accordance with the tube wall thickness procedure detailed in EN12735-1:2001 and BS1306:1975 (Copper & copper alloy pressure piping systems). The 'formed' pressure ratings assume the tube is mechanically bent with a radius at least three times greater than its outside diameter.



Copper Fittings for CO₂

The standard range of copper fittings supplied by HRP are manufactured by Elkhart Products Corporation and may be used in assemblies subject to the Pressure Equipment Directive. ACR fittings from 1/4" to 4.1/8" nominal diameter meet the performance requirements established within ANSI/ASME B16.22. The minimum burst pressure at various operating temperatures has been established for each fitting size and a safety factor of 4 should be applied to establish a recommended maximum working pressure. The MWP values shown below are therefore derived from burst pressure at 55°C divided by 4. Care should be taken when applying copper fittings to CO₂ applications and consideration must be given to the maximum allowable system operating pressure.

Straight Socket Equal

Female/Female

Tube OD	HRP Code	MWP bar @ 55°C
1/4	130001	60
3/8	130028	58
1/2	130036	49
5/8	130044	46
3/4	130052	40
7/8	130079	37
1-1/8	130087	31
1-3/8	130095	28
1-5/8	130109	26

Reducing Sockets

Male/Female

Tube OD	HRP Code	MWP bar @ 55°C
3/8 1/4	130702	58
1/2 1/4	130729	49
1/2 3/8	130737	49
5/8 3/8	130745	46
5/8 1/2	130753	46
3/4 1/2	130761	40
3/4 5/8	130788	40
7/8 3/8	130796	37
7/8 1/2	130818	37
7/8 5/8	130826	37
7/8 3/4	130834	37
1-1/8 1/2	130842	31
1-1/8 5/8	130869	31
1-1/8 3/4	130877	31
1-1/8 7/8	130885	31
1-3/8 5/8	130893	28
1-3/8 7/8	130907	28
1-3/8 1-1/8	130915	28
1-5/8 5/8	130990	26
1-5/8 7/8	130850	26
1-5/8 1-1/8	130923	26
1-5/8 1-3/8	130931	26

Copper Return Bends

Female/Female

Tube O.D.	Centres	HRP Code	MWP bar @ 55°C
3/8	1-1/4	132810	58
3/8	1-1/2	132829	58
1/2	1-1/2	132837	49
5/8	2	132845	46
3/4	2-1/4	132853	40
7/8	2-1/2	132861	37
1-1/8	3	132888	31
1-3/8	4	132896	28
1-5/8	4-3/8	132918	26

Reducing Sockets

Female/Female

Tube OD	HRP Code	MWP bar @ 55°C
3/8 1/4	130257	58
1/2 3/8	130265	58
5/8 3/8	130273	46
5/8 1/2	130281	46
3/4 3/8	130303	40
3/4 1/2	130311	40
3/4 5/8	130338	40
7/8 1/2	130346	37
7/8 5/8	130354	37
7/8 3/4	130362	37
1-1/8 1/2	130389	31
1-1/8 5/8	130397	31
1-1/8 3/4	130419	31
1-1/8 7/8	130427	31
1-3/8 5/8	130443	28
1-3/8 3/4	130451	28
1-3/8 7/8	130478	28
1-3/8 1-1/8	130486	28
1-5/8 5/8	130605	26
1-5/8 7/8	130591	26
1-5/8 1-1/8	130494	26
1-5/8 1-3/8	130508	26

90° Copper S/R Elbows

Male/Female

Tube OD	HRP Code	MWP bar @ 55°C
1/2	134031	49
5/8	134058	46
7/8	134066	37
1-1/8	134074	31
1-3/8	134082	28
1-5/8	134090	26

Suction Line P-Traps

Female/Female

Tube O.D.	Code	MWP bar @ 55°C
5/8	133957	46
3/4	133949	40
7/8	133965	37
1-1/8	133973	31
1-3/8	133981	28
1-5/8	134007	26

90° Copper L/R Elbows

Female/Female

Tube OD	HRP Code	MWP bar @ 55°C
1/4	131725	60
3/8	131733	58
1/2	131741	49
5/8	131768	46
3/4	131776	40
7/8	131784	37
1-1/8	131792	31
1-3/8	131806	28
1-5/8	131814	26

90° Copper L/R Elbows

Male/Female

Tube OD	HRP Code	MWP bar @ 55°C
1/4	132004	60
3/8	132012	58
1/2	132039	49
5/8	132047	46
3/4	132055	40
7/8	132063	37
1-1/8	132071	31
1-3/8	132098	28
1-5/8	132101	26

90° Copper S/R Elbows

Female/Female

Tube OD	HRP Code	MWP bar @ 55°C
1/4	132268	60
3/8	132276	58
1/2	132284	49
5/8	132292	46
3/4	132306	40
7/8	132314	37
1-1/8	132322	31
1-3/8	132349	28
1-5/8	132357	26

90° Copper L/R Elbows

Fitting/Fitting

Tube OD	HRP Code	MWP bar @ 55°C
3/8	132977	58
1/2	132985	49
5/8	132993	46
7/8	133019	37
1	133027	35
1-1/8	133035	31
1-3/8	133043	28
1-5/8	133051	26

45° Copper Bends

Female/Female

Tube OD	HRP Code	MWP bar @ 55°C
3/8	131539	58
1/2	131547	49
5/8	131555	46
3/4	131563	40
7/8	131571	37
1-1/8	131598	31
1-3/8	131601	28
1-5/8	131628	26

45° Copper Bends

Male/Female

Tube OD	HRP Code	MWP bar @ 55°C
3/8	131881	58
1/2	131903	49
5/8	131911	46
7/8	131946	37
1-1/8	131954	31
1-3/8	131962	28
1-5/8	131970	26



Copper Fittings for CO₂

Copper Tees Equal

Female/Female/Female

Tube O.D.	HRP Code	MWP bar @ 55°C
1/4	132519	60
3/8	132527	58
1/2	132535	49
5/8	132543	46
3/4	132551	40
7/8	132578	37
1-1/8	132586	31
1-3/8	132594	28
1-5/8	132608	26

Copper Tees - Reducing

Female/Female/Female

Tube O.D.			HRP Code	MWP bar @ 55°C
1	2	3		
1/4	1/4	3/8	133108	58
5/16	5/16	1/4	133906	57
5/16	1/4	1/4	133914	57
3/8	3/8	5/8	134163	46
3/8	1/4	3/8	134252	58
3/8	3/8	1/2	134171	49
3/8	3/8	1/4	134201	58
3/8	1/4	1/4	134260	58
1/2	1/2	5/8	134309	46
1/2	1/2	3/8	134317	49
1/2	1/2	1/4	134333	49
1/2	3/8	1/2	134376	49
1/2	3/8	3/8	134384	49
1/2	1/4	1/4	134430	49
5/8	5/8	1-1/8	133116	31
5/8	5/8	7/8	134457	37
5/8	5/8	3/4	134465	40
5/8	5/8	1/2	134473	46
5/8	5/8	3/8	134481	46
5/8	5/8	1/4	134503	46
5/8	3/8	1/2	134562	46
5/8	1/2	5/8	134511	46
5/8	1/2	1/2	134538	46
5/8	3/8	5/8	134554	46
5/8	3/8	3/8	134570	46
3/4	3/4	7/8	134589	37
3/4	3/4	5/8	134597	40
3/4	3/4	1/2	134600	40
3/4	5/8	5/8	134635	40
3/4	3/4	3/8	134619	40

Copper Tees - Reducing

Female/Female/Female

Tube O.D.			HRP Code	MWP bar @ 55°C
1	2	3		
7/8	7/8	1-1/8	134724	31
7/8	5/8	7/8	134805	37
7/8	5/8	5/8	134813	37
7/8	5/8	1/2	134848	37
7/8	7/8	3/4	134732	37
7/8	7/8	5/8	134740	37
7/8	7/8	1/2	134759	37
7/8	7/8	3/8	134767	37
7/8	1/2	7/8	134864	37
7/8	1/2	1/2	134880	37
1-1/8	1-1/8	1-5/8	134899	26
1-1/8	1-1/8	1-3/8	134902	28
1-1/8	1-1/8	7/8	134910	31
1-1/8	1-1/8	3/4	134929	31
1-1/8	1-1/8	5/8	134937	31
1-1/8	1-1/8	1/2	134945	31
1-1/8	7/8	1-1/8	134961	31
1-1/8	7/8	7/8	134988	31
1-1/8	7/8	5/8	134996	31
1-1/8	7/8	1/2	135003	31
1-1/8	5/8	7/8	135046	31
1-1/8	5/8	1-1/8	135038	31
1-1/8	5/8	5/8	135054	31
1-3/8	1-3/8	1-5/8	135089	26
1-3/8	1-3/8	1-1/8	135097	28
1-3/8	1-3/8	7/8	135100	28
1-3/8	1-3/8	5/8	135119	28
1-3/8	1-1/8	1-3/8	135135	28
1-3/8	1-1/8	1-1/8	135143	28
1-3/8	1-1/8	7/8	135151	28
1-3/8	1-1/8	5/8	135178	28
1-3/8	7/8	7/8	135216	28
1-3/8	7/8	1-1/8	135208	28
1-3/8	7/8	1-3/8	135194	28
1-5/8	1-5/8	1-3/8	135224	26
1-5/8	1-5/8	1-1/8	135232	26
1-5/8	1-5/8	7/8	135240	26
1-5/8	1-5/8	5/8	135259	26
1-5/8	1-3/8	1-5/8	135267	26
1-5/8	1-3/8	1-3/8	135275	26
1-5/8	1-3/8	1-1/8	135283	26
1-5/8	1-1/8	1-5/8	135305	26
1-5/8	1-1/8	1-1/8	135313	26
1-5/8	1-1/8	7/8	135321	26
1-5/8	7/8	1-5/8	135348	26

Copper End Caps

Tube O.D.	HRP Code	MWP bar @ 55°C
1/4	132667	60
3/8	132675	58
1/2	132683	49
5/8	132691	46
3/4	132705	40
7/8	132713	37
1-1/8	132721	31
1-3/8	132748	28
1-5/8	132756	26

Adaptors

Copper/Female Pipe Thread

Tube O.D.	FPT	HRP Code	MWP bar @ 55°C
3/8	1/4	131105	58
1/2	3/8	131113	49
5/8	3/8	131180	46
5/8	1/2	131121	46
3/4	3/4	131148	40
7/8	3/4	131156	37
1-1/8	1	131164	31
1-3/8	1-1/4	131172	28
1-5/8	1-1/2	131199	26

Adaptors

Copper/Male Pipe Thread

Tube O.D.	MPT	HRP Code	MWP bar @ 55°C
3/8	1/4	131342	58
1/2	3/8	131369	49
5/8	1/2	131377	46
5/8	3/4	131318	40
7/8	1/2	131350	37
7/8	3/4	131385	37
1-1/8	1	131393	31
1-3/8	1-1/4	131407	28
1-5/8	1-1/2	131415	26

Vulkan Lokring - Fittings for CO₂



All Fittings (Except long radius bends) have been tested and deemed suitable for applications in which CO₂ is used as a refrigerant in a temperature range between -10°C and +30°C with a maximum working pressure of 75 bar (limited by a relief valve or burst disk. These fittings have also been tested for suitability for PED at 5 times the working pressure e.g. 375 bar.

Straight Connector - Equal



Part No.	Tube 1	Tube 2	Tube 3	HRP Code
6NKMS50	1/4"	1/4"	-	116621
9.53NKMS50	3/8"	3/8"	-	116629
12.7NKMS50	1/2"	1/2"	-	119040
16NKMS50	5/8"	5/8"	-	119059
19NKMS50	3/4"	3/4"	-	119067
22NKMS50	7/8"	7/8"	-	119075
28.6NKMS50	1.1/8"	1.1/8"	-	119149
35 NKMS51	1.3/8"	1.3/8"	-	119159

Elbow



Part No.	Tube	HRP Code
6NWKMS50	1/4"	116749
9.53NWKMS50	3/8"	116757
12.7NWKMS50	1/2"	116765
16NWKMS50	5/8"	118923
19NWKMS50	3/4"	118958
22NWKMS50	7/8"	118966
28.6 NKBCU50	1.1/8"	119151
35 NKBCU50	1.3/8"	119161

Schrader Tee - Equal Brass



Part No.	Tube 1	Centre	Tube 3	HRP Code
6NKMSSV50	1/4"	1/4"	1/4"	116637
9.53NKMSSV50	3/8"	3/8"	3/8"	116645
12.7NKMSSV50	1/2"	1/2"	1/2"	119091
16NKMSSV50	5/8"	5/8"	5/8"	119105
19NKMSSV50	3/4"	3/4"	3/4"	119121
22NKMSSV50	7/8"	7/8"	7/8"	116653

KMP - KSGR



Part No.	Tube	HRP Code
8-VHMS07	5/16" - 22 swg	119144
9.53-VHMS07	3/8" - 21 swg	119146
12.7-VHMS07	1/2" - 21 swg	119147
12.7-VHMS10	1/2" - 20 swg	119133
16-VHMS10	5/8" - 20 swg	119137
19-VHMS10	3/4" - 19 swg	119141
22-VHMS10	7/8" - 19 swg	119143
28.6VHMS12	1-1/8" - 18 swg	119155
28.6VHMS16	1-1/8" - 16 swg	119157
35VHMS12	1-3/8" - 18 swg	119163
35VHMS15	1-3/8" - 16 swg	119165

Tee Connector



Part No.	Tube 1	Centre	Tube 3	HRP Code
6NTKMS50	1/4"	1/4"	1/4"	116661
9.53NTKMS50	3/8"	3/8"	3/8"	116669
12.7NTKMS50	1/2"	1/2"	1/2"	116677
16NTKMS50	5/8"	5/8"	5/8"	118990
19NTKMS50	3/4"	3/4"	3/4"	119016
22NTKMS50	7/8"	7/8"	7/8"	119024
28.6NTKMS50	1.1/8"	1.1/8"	1.1/8"	119153
9.53/6/9.53NTRMS50	3/8"	1/4"	3/8"	116685
12.7/9.53/12.7NTRMS50	1/2"	3/8"	1/2"	116693
16/19/16NTRMS50	5/8"	3/4"	5/8"	118451

* Notes: An insert must be used on all soft copper above 1/4" OD and any tube that may be subject to stresses or movement outside the normal functions of a refrigeration system.

21 & 22 SWG Copper Tube requires a 0.7mm insert

19 & 20 SWG Copper Tube requires a 1.0mm insert

Movement of the tube in the direct vicinity of a recently completed connection is to be avoided (if possible joints are to be made with the tubes in their final position).

Flare to Lokring Connectors - Supplied with Copper gasket



Part No.	Tube 1	Tube 2	Tube 3	HRP Code
LR-EURO-06-NK	1/4"	1/4"	-	116701
LR-EURO-09.53-NK	3/8"	3/8"	-	116709
LR-EURO-12.7-NK	1/2"	1/2"	-	116717
LR-EURO-16-NK	5/8"	5/8"	-	116725

Straight Connector - Reducing



Part No.	Tube 1	Centre	Tube 3	HRP Code
9.53/6NRMS50	3/8"	1/4"	1/4"	116733
12.7/9.53NRMS50	1/2"	3/8"	3/8"	117870
16/12.7NRMS50	5/8"	1/2"	1/2"	116741
19/16NRMS50	3/4"	5/8"	5/8"	116556
22/19NRMS50	7/8"	3/4"	3/4"	116599

Hand Tools



Part No.	Description	HRP Code
MZ	Heavy Duty Hand Tool	118737
MB8EVP	Assembly Jaw 1/4" ⁽¹⁾	118761
MB10EVP	Assembly Jaw 3/8" ⁽¹⁾	118788
MB12EVP	Assembly Jaw 1/2" ⁽¹⁾	118796
MB16EVP	Assembly Jaw 5/8" ⁽¹⁾	118818
MZ-V	Heavy Duty Hand Tool	116773
MB19EVP	Assembly Jaw 3/4" ⁽¹⁾	118826
MB22EVP	Assembly Jaw 7/8" ⁽¹⁾	118834
MB28EVP	Assembly Jaws 1-1/8"	119170
MB35EVP	Assembly Jaw 1-3/8"	119171



Lokprep

⁽¹⁾ Two have to be ordered to make a set of jaws.

Part No.	Description	HRP Code
Lokprep 65	15ml	118699
Lockprep LT	15ml	119167
Lockprep LT	30ml	119169

Refrigerant and Service Equipment



CO₂ Refrigerant

Product	Kg Per Cyl.	HRP Code
R744 (CO ₂) - Vapour	7	238190
	35	238192
R744 (CO ₂) - Liquid	7	238194
	35	238196

CO₂ Refrigerant Charging Gauge & Hose Kit

Conventional refrigerant gauge and manifold sets intended for CFC, HCFC or HFC refrigerants must NEVER be used for charging CO₂ refrigerant.

A purpose designed CO₂ charging gauge and hose kit capable of withstanding the extremely high pressures and low temperatures encountered in this operation MUST ALWAYS be used.

CO₂ Charging Manifold & Hose Kit

HRP Code
169934

Electrically Heated Regulator for CO₂

- > Maximum Inlet Pressure of 300 Bar
- > Two independent heating elements controlled by a thermostat
- > Overheat protection with resettable thermal fuse.
- > Insulation IP64 (EN 60529)
- > Voltages available 110 or 240V
- > 3 meter long power cable.

Not including charging hose connect to the refrigeration system.

HRP Code
Special Order

CO₂ Refrigerant Service Manifolds

Transcritical Applications

2 Valve manifold c/w 100mm anti-pulsation gauges

-1 to +80 Bar, -1 to +160 Bar for R744

3 x 1 metre Hoses and Carrying Case (FR5513-E25)

HRP Code
Special Order

Sub-critical Applications

2 Valve manifold c/w 80mm Oil filled gauges

-1 to +30 Bar, -1 to +50 Bar for R744

3 x 1 metre Hoses and Carrying Case (FR1304-E20)

HRP Code
Special Order

4 Valve manifold c/w 80mm Oil filled gauges

-1 to +30 Bar, -1 to +50 Bar for R744

3 x 1.5 metre Hoses and Carrying Case

+ 1 m x yellow vacuum hose (FR1308-4R-E20)

HRP Code
Special Order

A full range of 60mm, 80mm and 100mm CO₂ gauges are also available against special orders

Electronic CO₂ Refrigerant Leak Detector

Supplied in a hard storage case including:

D-Tek CO₂ leak detector

NiMH power stick

12V and 230V adapter, filters and operating manual.

HRP Code
Special Order

Refrigeration Oil for CO₂ Compressors

Reniso C Series Refrigeration oils are based on special synthetic esters, formulated for use in Carbon Dioxide (CO₂) compressors in all fields of industrial and commercial refrigeration. Can be used in sub-critical and transcritical applications.

Approved by: Bitzer, Bock, York and GEA (Grasso)

	HRP Code
Fuchs Reniso C55 POE Oil (1 x 10 litre Can)	Special Order
Fuchs Reniso C85 POE Oil (1 x 10 litre Can)	171676
Fuchs Reniso C170 POE Oil (1 x 10 litre Can)	Special Order

Also available via the HRP network is the ZEROL RFL-EP range of PAG oil specially developed for CO₂ applications.

Available in the following ISO viscosity grades:-

RFL 46-EP, RFL 68-EP and RFL 100-EP

Capillary Hoses for CO₂

QUADRA hose helps eliminate the problems associated with using copper tube for pressure switches (QUADRA 2.0) and oil return lines (QUADRA 4.0)

The hose has the ability to absorb vibrations without transmitting them.

The QUADRA capillaries and fittings can now be used with CO₂ at working pressures up to 120 bar.

	Coil length	HRP Code
Quadra 2.0mm capillary hose black	10m	291428
Quadra 4.0mm capillary hose black	10m	291436
Quadra 2.0mm capillary hose orange	10m	291540
Quadra 4.0mm capillary hose orange	10m	291548

A full range of fittings and tools are available from HRP including straight connectors, elbows, tees, hand pliers and hose cutters.

Vibration Eliminators for CO₂

For application in Suction and liquid lines operating up to 50 bar working pressure. The ZERO range of vibration eliminators can be used with CO₂ at temperatures from -45°C up to +130°C

	MWP	HRP Code
1/2" sweat Vibration Eliminator	50 bar	171780
5/8" sweat Vibration Eliminator	50 bar	171782
3/4" sweat Vibration Eliminator	50 bar	171784
7/8" sweat Vibration Eliminator	50 bar	171786
1.1/8" sweat Vibration Eliminator	50 bar	171788
1.3/8" sweat Vibration Eliminator	50 bar	171790
1.5/8" sweat Vibration Eliminator	50 bar	171792
2.1/8" sweat Vibration Eliminator	51 bar	171794

Bubble-Up Refrigerant Leak Detector

Manufacturer	Description	Code
Gotec	400 ml Aerosol Spray can	160490
Orapi	4952A4 Aerosol Spray can	160492



Liquid Line Driers

KMP WEU Liquid Line Driers

Following a period of extensive research work and the introduction of new refrigerants, the WEU range of liquid line driers has been introduced.

The WEU series has a desiccant mix of 100% MS594 molecular sieve for even greater moisture retention.

The new higher pressure refrigerants, such as R410A and R744, demand a high pressure rating for the line components which has resulted in a thicker new WEU series. The entire range has a shell rating of 45 bar.

Model No.	Connection size	HRP Code
WEU 032S	1/4" sw	275210
WEU 052S	1/4" sw	275212
WEU 053S	3/8" sw	275214
WEU 082S	1/4" sw	275216
WEU 083S	3/8" sw	275218
WEU 084S	1/2" sw	275220
WEU 162S	1/4" sw	275222
WEU 163S	3/8" sw	275224
WEU 164S	1/2" sw	275226
WEU 165S	5/8" sw	275228
WEU 303S	3/8" sw	275230
WEU 304S	1/2" sw	275232
WEU 305S	5/8" sw	275234
WEU 307S	7/8" sw	275236
WEU 414S	1/2" sw	275238
WEU 415S	5/8" sw	275240
WEU 417S	7/8" sw	275242
WEU 754S	1/2" sw	275244
WEU 756S	3/4" sw	275246
WEU 757S	7/8" sw	275248
WEU 759S	1-1/8" sw	275250

KMP WSL Suction Line Filters

The WSL suction line drier is designed for installation in the suction line to provide system protection, or burnout cleanup. It is recommended for retrofit applications to trap dirt and particles released by the solvent action of new lubricants.

Model No.	Connection size	HRP Code
WSL 166S	3/4" sw	275670
WSL 167S	7/8" sw	275689
WSL 305S	5/8" sw	275697
WSL 306S	3/4" sw	275700
WSL 307S	7/8" sw	275719
WSL 419S	1-1/8" sw	275727
WSL 7511S	1-3/8" sw	275735
WSL 7513S	1-5/8" sw	275743

KMP WSC Solid Core Driers

The WSC model is a solid core drier specifically suited to transport and many other applications. The solid core is manufactured using a high percentage of molecular sieve along with activated alumina, bound together with an organic binding material.

The deep refrigerant path through the solid block gives a very large collecting surface area and ensures a filtration efficiency of 90% at 20 micron particle size.

Model No.	Conn size	HRP Code
WSC 032 S	1/4" sw	276006
WSC 052 S	1/4" sw	276014
WSC 053 S	3/8" sw	276022
WSC 082 S	1/4" sw	276030
WSC 083 S	3/8" sw	276049
WSC 084 S	1/2" sw	276057
WSC 162 S	1/4" sw	276065
WSC 163 S	3/8" sw	276073
WSC 164 S	1/2" sw	276081
WSC 165 S	5/8" sw	276103
WSC 303 S	3/8" sw	276111
WSC 304 S	1/2" sw	276138
WSC 305 S	5/8" sw	276146
WSC 414 S	5/8" sw	276162
WSC 415 S	7/8" sw	276170
WSC 417 S	7/8" sw	276189

KMP 2 Way Heat Pump Driers

The V2A heat pump filter drier is designed to operate with refrigerant flow in either direction, making it suitable for heatpump installation.

The driers have a special internal design to ensure dirt is trapped when flow is reversed with high dessicant content to remove moisture and acids.

Model No.	Conn size	HRP Code
V2A 083S	3/8" sw	273252
V2A 084S	1/2" sw	273260
V2A 163S	3/8" sw	273279
V2A 164S	1/2" sw	273287
V2A 165S	5/8" sw	273309

Danfoss DML Solid Core Driers

Solid core of 100% molecular sieves are optimised for use with HFC refrigerants and R744 with POE and PEG oils.

Type DML driers are designed for applications requiring high water absorption and can be used with any manufacturers compressor. Because type DML driers contain no activated alumina, oil additives will not be depleted.

The DML range of driers are rated for a maximum working pressure of 42 bar.

Model N°	Connection size	HRP Code
DML 032S	1/4" SW	305450
DML 052S	1/4" SW	305452
DML 033S	3/8" SW	305453
DML 053S	3/8" SW	305454
DML 054S	1/2" SW	305456
DML 082S	1/4" SW	305458
DML 083S	3/8" SW	305460
DML 084S	1/2" SW	305462
DML 085S	5/8" SW	305463
DML 162S	1/4" SW	305465
DML 163S	3/8" SW	305467
DML 164S	1/2" SW	305469
DML 165S	5/8" SW	305471
DML304S	1/2" SW	305473
DML305S	5/8" SW	305475
DML306S	3/4" SW	305477
DML 307S	7/8" SW	305479
DML 309S	1.1/8" SW	305481

Replaceable Filter Core Driers

The VS Line driers consist of an extensive range of models in two shell diameters, with capacities of up to 211kW. They are suitable for use in either the liquid or suction line with a variety of cores available to suit the required application. As an option, the top flange can be supplied with a 1/4" NPT plug to enable pressure connections to be made.

Model No.	Conn size	HRP Code
VS 485	5/8"	272604
VS 487	7/8"	272612
VS 489	1.1/8"	272639
VS 4811	1.3/8"	272647
VS 4813	1.5/8"	272620

A full range of replaceable Filter Core Driers are available from HRP complete with CO₂ compatible drier cores and filter elements.



KMP Saddle Type Moisture Indicating

The saddle type sight glass is the ideal solution for large liquid lines. The sight glass is soldered directly onto the pipe allowing direct viewing of the refrigerant flow.

Part No.	Size	HRP Code
KSG/ST7	7/8"	270229
KSG/ST9	1-1/8"	270237
KSG/ST11	1-3/8"	270245
KSG/ST13	1-5/8"	270253

KMP Moisture Indicating Sight Glass

A large fused sight glass c/w circular indicator element giving a positive colour change, green - dry, yellow - wet. Supplied with extended copper tails for sweat connections for CO₂ (R744)

Part No.	Connection size	HRP Code
KSGR 2S	1/4" sw	270504
KSGR 3S	3/8" sw	270512
KSGR 4S	1/2" sw	270520
KSGR 5S	5/8" sw	270539
KSGR 6S	3/4" sw	270547
KSGR 7S	7/8" sw	270555
KSGR 9S	1-1/8" sw	270563

Danfoss SGRM

The saddle type sight glass is the ideal solution for large liquid lines. The sight glass is soldered directly onto the pipe allowing direct viewing of the refrigerant flow.

Part No.	Danfoss Code No.	Size	HRP Code
Male Threaded			
SGRM 1/2	014-0002	1/2" NPT	302461
SGRM 3/4	014-0004	3/4" BSP	302463
SGRM 3/4	014-0005	3/4" NPT	302465

Danfoss SGH Moisture Indicating Sight Glass

A large fused sight glass c/w circular indicator element giving a positive colour change, green - dry, yellow - wet. Models with extended copper tails with sweat connections are available for use with R744 systems up to a maximum operating pressure of 46 bar.

Model N°	Danfoss Code	Connection size	HRP Code
SGH 6S	014-1090	1/4" sw	Special Order
SGH 10S	014-1092	3/8" sw	Special Order
SGH 12S	014-1091	1/2" sw	Special Order
SGH 16S	014-1094	5/8" sw	Special Order
SGN 19S	014-0185	3/4" sw	Special Order
SGH 22S	014-1096	7/8" sw	Special Order
SGH 28S	014-1098	1.1/8" sw	Special Order

Ball Valves, Solenoid Valves and Non-Return Valves for use with CO₂



Danfoss Ball Valves

All valves have laser welded body construction forming a very strong jointing process of the body parts. Available with or without Schrader access port.

Suitable for use in R744 systems operating up to a maximum working pressure of 46 bar.

Part N°	Connection Size	Schrader Port	MWP	HRP Code
GBC 6s	1/4" sw	-	46 bar	305900
		1/4" SAE	46 bar	305924
GBC 10s	3/8" sw	-	46 bar	305902
		1/4" SAE	46 bar	305926
GBC 12s	1/2" sw	-	46 bar	305904
		1/4" SAE	46 bar	305928
GBC 16s	5/8" sw	-	46 bar	305906
		1/4" SAE	46 bar	305930
GBC 18s	3/4" sw	-	46 bar	305908
		1/4" SAE	46 bar	305932
GBC 22s	7/8" sw	-	46 bar	305910
		1/4" SAE	46 bar	305934
GBC 28s	1-1/8"	-	46 bar	305912
		1/4" SAE	46 bar	305936
GBC 35s	1-3/8" sw	-	46 bar	305914
		1/4" SAE	46 bar	305938
GBC 42s	1-5/8" sw	-	46 bar	305916
		1/4" SAE	46 bar	305940
GBC 54s	2-1/8" sw	-	46 bar	305918
		1/4" SAE	46 bar	305942
GBC 67s	2-5/8" sw	-	46 bar	305920
		1/4" SAE	46 bar	305944
GBC 79s	3-1/8" sw	-	46 bar	305922
		1/4" SAE	46 bar	305946

Danfoss EVR Solenoid Valves - Normally Closed

Direct and servo operated valves, suitable for use with all fluorinated refrigerants and R744, in liquid, suction and hot gas lines up to a maximum operating pressure of 46 bar.

All valves supplied without coils which can be selected separately dependant on voltage and IP rating.

Model No.	Danfoss Code	Conn Size	MWP	HRP Code
EVR 2	032F1201	1/4" sw	46 bar	301145
EVR 3	032F1206	1/4" sw	46 bar	301153
EVR 3	032F1204	3/8" sw	46 bar	301149

Also available from HRP are the EVRH 6 to 20 solenoid valves. (3/8" to 7/8"sw) This range of valves can only be used in subcritical R744 applications.

Henry Ball Valves

Designed exclusively for air conditioning and refrigeration applications - these ball valves can be used for both liquid and gas applications. Commonly used for isolating purposes, these valves are suitable for HCFC, HFC and R744 refrigerants, along with their associated oils. They have a blow out proof stem and temp range: -40°C to 120°C.

Part N°	Size (ODS)	MWP	CE Cat	HRP Code
907202	1/4"	48 barg	SEP	294779
907203	3/8"	48 barg	SEP	294781
907204	1/2"	48 barg	SEP	294783
907205	5/8"	48 barg	SEP	294785
907306	3/4"	48 barg	SEP	294787
907307		48 barg	SEP	294789
907409	1-1/8"	48 barg	SEP	294791
907511		48 barg	CAT I	294803
907613	1-5/8"	48 barg	CAT I	294804
907617	2-1/8"	48 barg	CAT I	294805
907721	2-5/8"	48 barg	CAT I	294806
907725	3-1/8"	40 barg	CAT I	294807

Henry Ball Valves - c/w Schrader Fitting

Part N°	Connection Size	Port size mm	MWP	CE Cat	HRP Code
937202	1/4"	12.70	48 barg	SEP	298690
937203	3/8"	12.70	48 barg	SEP	298691
937204	1/2"	12.70	48 barg	SEP	298692
937205	5/8"	12.70	48 barg	SEP	298693
937306	3/4"	19.05	48 barg	SEP	298694
937307	7/8"	19.05	48 barg	SEP	298695
937409	1-1/8"	25.40	48 barg	SEP	298696
937511	1-3/8"	31.75	48 barg	CAT I	298698
937613	1-5/8"	38.10	48 barg	CAT I	298699
937617	2-1/8"	50.80	48 barg	CAT I	298701
937721	2-5/8"	50.80	48 barg	CAT I	298702
937725	3-1/8"	63.50	40 barg	CAT I	298703

Danfoss Non-Return Valves

The Danfoss NRV and NRVH range of non-return valves can be used in liquid, suction and hot gas lines in refrigeration and air conditioning plant.

Part N°	Connection size and valve style	MWP	HRP Code
NRV & NRVH	Straight-way 1/4"sw up to 7/8"sw	46 barg	Special Order
NRV & NRVH	Angle-way 7/8"sw up to 1.5/8"sw	46 barg	Special Order



AKV Valve Bodies

The AKV Range of electronic expansion valves are designed for refrigeration plants operating on HCFC, HFC refrigerants and CO₂.

Valves are available with imperial or metric connection sizes as shown in the table below.

Systems using the AKV 15 a filter must be mounted in front of the valve. The AKV 10 has a built in filter therefore no external filter is required.

Valve Body Assembly - Less Coil

Valve Type	K _v value m ³ /h	in x out (*)	Connections - ODF Solder		
			HRP Code	in x out (mm)	HRP Code
AKV 10-1	0.010	3/8 x 1/2	305001	10 x 12	305632
AKV 10-2	0.017	3/8 x 1/2	305007	10 x 12	305634
AKV 10-3	0.025	3/8 x 1/2	305013	10 x 12	305636
AKV 10-4	0.046	3/8 x 1/2	305019	10 x 12	305638
AKV 10-5	0.064	3/8 x 1/2	305025	10 x 12	305640
AKV 10-6	0.114	3/8 x 1/2	305031	10 x 12	305642
AKV 10-7	0.209	1/2 x 5/8	305037	12 x 16	305644
AKV 15-1	0.25	3/4 x 3/4	305061	18 x 18	305646
AKV 15-2	0.40	3/4 x 3/4	305063	18 x 18	305648
AKV 15-3	0.63	7/8 x 7/8	305065	22 x 22	305618
AKV 15-4	1.0	1 1/8 x 1 1/8	305067	28 x 28	305652

AKV Coils

Coils must be ordered separately dependant on the required voltage and power required. These encapsulated coils are fitted to the valves by means of an integrated spring lock system.

These coils incorporate a terminal box (IP67)

Danfoss code	Voltage V	Frequency Hz	Power W	AKV 10			AKV15 all	HRP code
				1 to 5	6	7		
018F6707	24	50	10	-	-	-	Y	301065
018F6807			12	Y	-	-	Y	301084
018F6702	240	50	10	Y	Y	-	Y	301057
018F6802			12	Y	Y	Y	Y	301087

AKV Valve Spare Parts

Valve Type	size	Orifice kit	Piston kit	Gasket kit	Filter kit
		HRP Code	HRP Code	HRP Code	HRP Code
AKV 10	1	305091	-	-	305106
	2	305093	-	-	
	3	305095	-	-	
	4	305097	-	-	
	5	305099	-	-	
	6	305101	-	-	
	7	305103	-	-	
AKV 15	1	-	305698	305602	305106
	2	-	305700		
	3	-	305702		
	4	-	305704		

All kits include gaskets and O-rings where appropriate



Helical Oil Separators

AC&R high efficiency Helical oil separators feature a centrifugal flow path providing up to 99% efficiency oil separation by volume combined with low pressure drop. The SH Models are rated for a maximum allowable pressure of 40 barg.

Part N°	Connection ODS	Shell Type	CE Cat	MWP	HRP Code
SH-5182-CE	1/2"	Hermetic	CAT I	40 barg	Special Order
SH-5185-CE	5/8"	Hermetic	CAT I	40 barg	Special Order
SH-5187-CE	7/8"	Hermetic	CAT I	40 barg	Special Order
SH-5188-CE	1-1/8"	Hermetic	CAT I	40 barg	Special Order
SH-5190-CE	1-3/8"	Hermetic	CAT II	40 barg	Special Order

Oil Separator/Reservoirs

Part N°	Connection ODS	Shell Type	CE Cat	MWP	HRP Code
SH-5382-1.5L	1/2"	Hermetic	CAT I	42 barg	Special Order
SH-5390-CE	1-3/8"	Hermetic	CAT II	40 barg	Special Order

Mechanical Oil Level Regulator

This new regulator uses a combination flange which enables simplification of the product range, from the previously available models.

- Improved internal mechanism - robust & reliable long life design.
- Suitable for Bitzer, Copeland & other compressors.

Model	Sight Glass Oil Level	Equal conn	Pressure Differential	MWP	HRP Code
SN-9530EHP	1/4 to 5/8 Adj	Yes	0.35 - 6.1 Bar	46 barg	177455

Henry Optronic Oil Level Regulator

Model N°	Sight Glass Oil Level	CE Cat	MWP	HRP Code
OP-12 MKII	Fixed 1/2 S/G	LVD & EMC	35 barg	177566

Higher MWP available on request

Oil Reservoirs

Two sight glass ports on the shell enable observation of the oil level within the vessel. The oil reservoir helps keep the oil line to oil level regulators filled ready.

Part N°	Capacity Litres	CE Cat	MWP	HRP Code
SH-9109-CE	8.2	CAT II	40 barg	Special Order
SH-9108U-CE	12.0	CAT II	40 barg	Special Order
SH-9108-CE	15.8	CAT II	40 barg	Special Order

Solenoid Manifolds

These manifolds can be used on both oil and liquid refrigerant lines.

Part N°	Capacity Litres	CE Cat	MWP	HRP Code
SM-064	4 x 3/8" Mfl	SEP	40 barg	Special Order
SM-069	6 x 3/8" Mfl	SEP	40 barg	Special Order

Reservoir Vent Valves

A reservoir pressure valve is used in a Low Pressure Oil Management System. It is used to vent the pressure in the oil reservoir while still maintaining a positive pressure differential between the reservoir and the compressor crankcase. The positive pressure ensures an adequate oil supply to the oil level regulator. The reservoir pressure valve is piped to suction pressure.

Part No.	Pressure setting	CE Cat	MWP	HRP Code
S-9104	5 psi (0.35bar)	SEP	40 barg	171506
S-9104H	20 psi (1.4bar)	SEP	40 barg	171530
S-9104XH	35 psi (2.4bar)	SEP	40 barg	Special Order

Oil Regulator Shut-Off Valves

These valves are positioned on the oil inlet and equalisation pipes of Henry Technologies Oil Level Regulators. This allows each oil level regulator to be isolated in the event that servicing is required on the compressor, oil level regulator, strainer etc.

Part No.	Conn size	CE Cat	MWP	HRP Code
S-9106V	3/8" Vertical	SEP	40 barg	177520
S-9106H	3/8" Horizontal	SEP	40 barg	177541
S-9106E	1/4" Vertical	SEP	40 barg	177539
S-9106EH	1/4" Horizontal	SEP	40 barg	Special Order

Oil Filter Drier

The SH-4005 can be fitted in the oil return line between the oil separator and oil reservoir, in stead of fitting one oil stariner per oil level regulator.

Part No.	Conn size	CE Cat	MWP	HRP Code
SH-4005	3/8" male flare	SEP	10	Special Order

Liquid Level Switches

The level switch can be installed in a number of locations in the refrigeration system such as liquid receivers, suction line accumulators and compressor crankcases.

Part No.	Supply voltage	Contacts	Conn Size	HRP Code
S-9424	24V AC/DC	N.C.	1/2" NPT	179264
S-9424-A	24V AC/DC	N.O.	1/2" NPT	179272
S-9420	240V AC	N.C.	1/2" NPT	179248
S-9420-A	240V AC	N.O.	1/2" NPT	179256

Contact position with liquid present :

N.C Normally closed

N.O Normally open



Temprite Coalescent Oil Separators

Building on years of experience with coalescing filtration and separation technology for traditional refrigeration applications, Temprite has expanded its product range to address the unique and challenging demands of CO₂ as a refrigerant. Temprite's new range of products for subcritical applications up to 40 bar and transcritical applications up to 130 bar is now available through HRP.

Whilst being environmentally friendly, CO₂ presents several challenges. Most traditional refrigerants have a maximum operating pressure of around 31 to 35 bar. CO₂ in subcritical applications requires a 40 bar rating. For transcritical applications, pressures could exceed 130 bar. As a consequence these systems tend to be constructed using steel pipe work as opposed to copper tube. Steel pipe is inherently more dirty than copper tube and it requires welding verses the cleaner brazing process associated with copper tubing. This results in more dirt in the system. Temprite's coalescing filtration and separation technology will remove the dirt from the system. This is vital since in view of the higher pressures that come with CO₂, smaller valves and orifice sizes are used which are more susceptible to dirt blockage.

Temprite's separators will also separate and clean oil at a 98.5%+ efficiency level. In addition, CO₂ has a much higher density than traditional refrigerants. This makes it more difficult to separate the oil from the gas. As a result a better separation process is required and Temprite's coalescing technology is superior to any other separators. Temprite's transcritical oil separators also have a port provided for inserting a sensor to monitor the internal oil level.

After filtering out dirt and separating oil from the CO₂ refrigerant, the clean oil must be returned to the compressor crankcase. In addition to the oil separator range Temprite also offers a 7 litre oil reservoir with a service rating up to 130 bar. This vessel also has a port for inserting a sensor to monitor the reservoir's oil level.

Temprite 130 Hermetic Series - Transcritical Oil Separators

Model	Maximum Working Pressure	Inlet/outlet connection **	Oil Return connection	Vessel Diameter (mm)	HRP Code
131-1/4	130 bar	1/4" NPT	1/4" NPT	73 mm	Special Order
131-3/8	130 bar	3/8" NPT	3/8" NPT	73 mm	Special Order
133	130 bar	1/2" NPT	1/4" FPT	102 mm	Special Order
135	130 bar	3/4" NPT	1/4" FPT	102 mm	Special Order

** Customer Specified - Female or Male Threads

Capacities in kW for transcritical R744

Temp °C	Model 131	Model 133-133A	Model 135-135A	Model 137A
+14.7	19.8	33	120	330
+9.7	18.1	30.2	8	302
-5	11.5	19.2	70	192
-6.7	10.7	17.9	8	179
-12.2	8.3	13.8	50	138
-17.8	5.8	9.6	9	96
-23.3	3.3	5.5	20	55

Temprite 130 Accesible Series - Transcritical Oil Separators

Model	Maximum Working Pressure	Inlet/outlet connection **	Oil Return connection	Vessel Diameter (mm)	HRP Code
133A	130 bar	1/2" NPT	1/4" FPT	102 mm	Special Order
135A	130 bar	3/4" NPT	1/4" FPT	102 mm	Special Order
137A-3/4	130 bar	3/4" NPT	1/4" FPT	141 mm	Special Order
137A-1	130 bar	1" NPT	1/4" FPT	141 mm	Special Order
137A-1.1/4	130 bar	1.1/4" NPT	1/4" FPT	141 mm	Special Order

** Customer Specified - Female or Male Threads, or Butt Weld

Oil Separators & Oil Separator/Reservoirs (Inc. Filter)

Part N°	Connection (")		Dimensions (mm)		Weight (kg)	Reservoir Vol (Litres)	R404A (kW)	Max Sw Vol (m³/hr)	HRP Code	
	Discharge	Oil	MWP	Height (mm)						Dia (mm)
922	5/8	1/4	44.8 bar	438	100	5.0	-	8.35	28	177310
922R			44.8 bar	495		5.9	2.27			177328
923	7/8	1/4	44.8 bar	438	100	5.0	-	11.61	40	177312
923R			44.8 bar	495		5.9	2.27			177330
924	1-1/8	1/4	44.8 bar	524	100	7.3	-	20.85	72	177314
924R			44.8 bar	702		9.5	3.22	-	-	177332
925	1-3/8	1/4	44.8 bar	524	100	7.3	-	31.71	110	177316
925R			44.8 bar	702		9.5	3.22	-	-	177336
926	1-5/8	3/8	44.8 bar	889	150	15.4	-	54.26	185	177318
926R			44.8 bar	1012		18.6	6.7	-	-	177338

R = Oil separator / Reservoir models

Accessories & Spare Parts

A full range of replacement filter elements and gaskets are available from all HRP Service Centres



Pressure Relief Valves

A typical application for a Henry Technologies pressure relief valve (PRV) is to protect a liquid receiver from being over pressurised.

Henry Technologies pressure relief valves are designed to discharge vapour and should not be used to vent liquid refrigerant. The valves are back pressure dependant and are therefore required to discharge to atmosphere.

Once a PRV has discharged, replacement is recommended, as a set pressure can no longer be guaranteed.

In line with the Institute of Refrigeration Guidelines, Henry Technologies recommend that a PRV should be replaced at least every 5 years. These intervals may have to be reduced if other regulation apply.

The 5233 A & B models have been specially designed for high pressure applications using CO₂ up to a maximum operating pressure of 46 barg.

Part N°	Inlet Connection Size	Set Pressure Ranges	CE Cat	HRP Code
5233A - xx.x bar - CE	3/8" MPT	25 - 46 barg	CAT IV	Special Order
5233B - xx.x bar - CE	1/2" MPT	25 - 46 barg	CAT IV	Special Order

Rupture Discs

A rupture disc protects against any leakage or weeping of refrigerant through a relief valve. A rupture disc can also be used in combination with a pressure gauge and/or pressure switch to detect if a relief valve has discharged.

Henry Technologies rupture discs are designed to operate with gases and should not be used to prevent liquid over pressure.

In line with the Institute of Refrigeration Guidelines, it is recommended that at least every 2 years all high side bursting discs should be replaced. Low side bursting disc should be replaced every 5 years.

Part N°	Inlet Connection Size	Set Pressure Ranges	CE Cat	HRP Code
5526A - xx.x bar - CE	1/2" MPT	40, 42 & 46 barg	CAT IV	Special Order

Rupture Disc Indicators

The function of these indicators are to provide visual indication in the event of a rupture disc burst. Available as a Pressure gauge or a Pressure switch.

Part N°	Description	Conn MPT	CE Cat	HRP Code
G 15	Halocarbon guage	1/8"	SEP	298204
SW 60	Pressure switch	1/8"	LVD & EMC	298222

Three Way Dual Shut-Off Valves

The function of a three way valve is to permit replacement of one of the pressure relief devices, while the other is protecting the pressure vessel. In this way, a vessel is protected from over-pressure during servicing. It also allows a pressure relief device to be replaced in-situ, without removing the system refrigerant charge. These valves are rated at a maximum working pressure of 46 barg.

Part N°	Size	CE Cat	HRP Code
923	3/8" FPT x 3/8" FPT	SEP	295779
925	1/2" FPT x 1/2" FPT	SEP	295787
8022A	3/4" FPT x 3/4" FPT	SEP	298247
PP55-2	1/2" MPT x 1/2" MPT union	SEP	295795
PP55-3	3/4" MPT x 3/4" MPT union	SEP	295803