

**BEIJER REF** *Australia*  
refrigeration & hvac

















**INDUSTRIAL  
CATALOGUE**  
EDITION 1



# Industry Leading Brands

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SECTION	PAGE INDEX - 2015		PAGE
ID			DANFOSS INDEX, PRODUCT RANGE I1-51
ID - IL			DRIER REPLACEABLE CORE, WATER TESTING, ICE GENERATORS I52
IL			LEAK DETECTION, LIQUID INDICATORS, LIQUID LEVEL FLOAT SWITCHES I53
IV			LIQUID LEVEL PROBES, SENSORS, SWITCHES & TRANSMITTERS I54
IV			LUBRICANTS I55
IV			PURGERS I56
IV			PRESSURE GAUGES, STRAINERS I57
IV			VALVES - BALL DRAIN, CHECK & ELECTRONIC CONTROL I58
IV			VALVES - EXPANSION, FLANGES I59
IV			VALVES - GAUGE, HAND SHUT OFF I60
IV			VALVES - HAND SHUT OFF, STOP CHECK I61
IV			VALVES - PRESSURE REGULATORS, PRESSURE RELIEF & MANIFOLD I62
IV			VALVES - PRESSURE RELIEF CARTRIDGE TYPE I63
IV			VALVES - SOLENOID, SPARE PARTS I64
IV			VALVES - SPARE PARTS I65-66
IV			MISCELLANEOUS INDUSTRIAL PRODUCTS I65-66



## INDEX - By page number



TYPE	PRODUCT (Spare parts listed at end of index and end on book)	PAGE
SVA-S/L	Stop Valves RA	13
SVA-S/L	Stop Valves STR	14
REG-SA/SB	Regulating Valves Angle	15
REG-SA/SB	Regulating Valves Straight	16
SNV	Needle Valves	17
FIA	Strainer Bodies Butt Weld Angle	18
FIA	Strainer Bodies Butt Weld Straight	19
FA inline	Strainer Bodies / Flanged Straight	19
FIA	Strainers Inserts for FIA	110
NRVA	Check Valves Flanged	111
NRVS	Check Valves Direct Coupled	111
CHV-X	Check Valves Butt Weld Angle	111
SCA-X	Stop Check Valves Butt Weld Angle	112
OFV	Overflow Valves	112
QDV	Quick Drain Valves	112
ICF	Valve Station Pumped Liquid Evap Feed	113
ICF	Valve Station Liquid or Hot Gas	114
ICF	Valve Station Liquid Injection (ICM & AKVA)	115
EVRA/T, FA, ICF 15/20 EVRAT	Solenoid Valves / Flanges / FA direct mount/ICF 15/20 EVRAT	116
EV220	Solenoids Valves for Water	117
Coils	Coils for solenoid valves	117
ICS	Control Valves SOC Weld	117
ICS	Control Valves Butt Weld/Solder	118
ICM	Motor Valves ANSI Butt & SOC Weld	119
ICAD	Motor / actuator for ICM	119
PM-ICS	ICS Control Valves Flanged - For PM Replacement ONLY	120
PILOTS	Pilot's (CVP,EVM,CVH etc) , Flanges etc	121
ICLX	Gas Powered Suction Valves ANSI Butt & SOC Weld	122
GPLX	Gas Powered Suction Valves Butt Weld	122
PMLX	Gas Powered Suction Valves Flanges and Coils	123
PMFL, PMFH	Liquid Level Controls	124
SV	Liquid Level Controls Flanges and Acc	125
HFI	High Pressure Float Valve	125
EKC	Electronic Controls Level / DX / Temp	126
AKS38	Level Float	126
AKS 4100	Level Transmitters	126
AKVA	Electronic Expansion Valves	127
CCM	Electronic Expansion / control Valves	127
TEA	Thermostatic Expansion Valves	128
TEAT	Liquid Injection Valve	128
TEVA	Liquid Level Controls / Orifices for TEA/T, TEVA / Strainers	129
SFA 15	Safety Valves	130
SFV 20	Safety Valves	130
SFV 25	Safety Valves	131
DSV	Safety Valves Accessories	131
POV	Internal Safety Valves	132
BSV	Pilot valve for POV	132
KDC	Multifunctional compressor valve	133
ORV	Oil Regulating Valve	133
LLG	Liquid Level Glasses	134
MLI	Liquid/Oil Sight Glasses	134
GD	Gas Detectors	135
KP	Pressure / Temperature Controls	136
RT	Pressure / Temperature Controls	136
MP	Differential Pressure Controls	136
AKS 33 / 3000	Pressure Transmitters	137
AKS 12, AKS11, AKS21	Temperature Sensors	137
Spare Parts	SVL (SVA-ST/LT/HS/L/S, REG SA/SB, SCA/X, FIA, CHV/X)	138
Spare Parts	SVL (SVA-ST/LT/HS/L/S, REG SA/SB, SCA/X, FIA, CHV/X)	139
Spare Parts	SVL Accessories	140
Spare Parts	SCV, REG numerical cone	141
Spare Parts	FIA, FA, NRVA, GPLX	142
Spare Parts	EVRA / T / S	143
Spare Parts	ICV (ICS, ICM, ICLX)	144
Spare Parts	ICV (ICS, ICM, ICLX)	145
Spare Parts	ICF	146
Spare Parts	PM, PML, PMC, PMLX, PMFL, PMFH, MEV, MRV	147
Spare Parts	PM, PML, PMC, PMLX, PMFL, PMFH, MEV, MRV	148
Spare Parts	AKVA, TEA, TEAT, TEVA	149
Spare Parts	AKS4100, AKS38, SV float, QDV, KDC,HFI, SFA, SFV, ICAD, ORV	150
KV Cross Ref	EVRA / PM / ICS / ICM / PMLX / GPLX / PML / ICF / ICLX	151/2
SLV back compatibility chart	SVA / SCA / REG / FIA / CHV	150

## INDEX - Alphabetically by product type




TYPE	PRODUCT (Spare parts listed at end of index and end on book)	PAGE
AKS 12, AKS11, AKS21	Temperature Sensors	137
AKS 33 / 3000	Pressure Transmitters	137
AKS 4100	Level Transmitters	126
AKS38	Level Float	126
AKVA	Electronic Expansion Valves	127
BSV	Pilot valve for POV	132
CCM	Electronic Expansion / Control Valves	127
CHV-X	Check Valves Butt Weld Angle	111
Coils	Coils for solenoid valves	117
DSV	Safety Valves Accessories	131
EKC	Electronic Controls Level / DX / Temp	126
EV220	Solenoids Valves for Water	117
EVRA/T, ICS, FA	Solenoid Valves / Flanges / FA direct mount	116
FA inline	Strainer Bodies / Flanged Straight	19
FIA	Strainer Bodies Butt Weld Angle	18
FIA	Strainer Bodies Butt Weld Straight	19
FIA	Strainers Inserts for FIA	110
GD	Gas Detectors	135
GPLX	Gas Powered Suction Valves Butt Weld	122
HFI	High Pressure Float Valve	125
ICAD	Motor / actuator for ICM	119
ICF	Valve Station Pumped Liquid Evap Feed	113
ICF	Valve Station Liquid or Hot Gas	114
ICF	Valve Station Liquid Injection (ICM & AKVA)	115
ICLX	Gas Powered Suction Valves Butt Weld	122
ICM	Motor Valves Butt Weld & SOC Weld	119
ICS	Control Valves SOC Weld	118
KDC	Multifunctional compressor valve	133
KP	Pressure / Temperature Controls	136
LLG	Liquid Level Glasses	134
MLI	Liquid/Oil Sight Glasses	134
MP	Differential Pressure Controls	136
NRVA	Check Valves Flanged	111
NRVS	Check Valves Direct Coupled	111
OFV	Overflow Valves	112
ORV	Oil Regulating Valve	133
PILOTS	Pilot's (CVP,EVM,CVH etc) , Flanges etc	121
PM-ICS	ICS Control Valves Flanged - For PM Replacement ONLY	120
PMFL, PMFH	Liquid Level Controls	124
PMLX	Gas Powered Suction Valves Flanges and Coils	123
POV	Internal Safety Valves	132
QDV	Quick Drain Valves	112
REG-SA/SB	Regulating Valves Angle	15
REG-SA/SB	Regulating Valves Straight	16
RT	Pressure / Temperature Controls	136
SCA-X	Stop Check Valves Butt Weld Angle	112
SFA 15	Safety Valves	130
SFV 20	Safety Valves	130
SFV 25	Safety Valves	131
SNV	Needle Valves	17
SV	Liquid Level Controls Flanges and Acc	125
SVA-S/L	Stop Valves RA	13
SVA-S/L	Stop Valves STR	14
TEA	Thermostatic Expansion Valves	128
TEAT	Liquid Injection Valve	128
TEVA	Liquid Level Controls / Orifices for TEA/T, TEVA / Strainers	129
Spare Parts	AKS4100, AKS38, SV float, QDV, KDC,HFI, SFA, SFV, ICAD, ORV	150
Spare Parts	AKVA, TEA, TEAT, TEVA	149
Spare Parts	EVRA / T / S	143
Spare Parts	FIA, FA, NRVA	142
Spare Parts	ICF	146
Spare Parts	ICV (ICS, ICM, ICLX)	144
Spare Parts	ICV (ICS, ICM, ICLX)	145
Spare Parts	PM, PML, PMC, PMLX, PMFL, PMFH, MEV, MRV	147
Spare Parts	PM, PML, PMC, PMLX, PMFL, PMFH, MEV, MRV	148
Spare Parts	SCV, REG numerical cone	141
Spare Parts	SVL (SVA-ST/LT/HS/L/S, REG SA/SB, SCA/X, FIA, CHV/X)	138
Spare Parts	SVL (SVA-ST/LT/HS/L/S, REG SA/SB, SCA/X, FIA, CHV/X)	139
Spare Parts	SVL Accessories	140
KV Cross Ref	EVRA / PM / ICS / ICM / PMLX / GPLX / PML / ICF / ICLX	151/2
SLV back compatibility chart	SVA / SCA / REG / FIA / CHV	150

# STOP VALVES




## SVA-S & L - Butt Weld ANSI


Angle	Handwheel	52 bar and -60 to 150 °C	SVL Flexline™ - Line components 	
Code	Type	Size	Approx Weight	\$
148B5260	SVA-L 15 A ANG H-WHEEL (long bonnet)	15 long bonnet	1.55	
148B5360	SVA-L 20 A ANG H-WHEEL (long bonnet)	20 long bonnet	1.63	
148B5460	SVA-L 25 A ANG H-WHEEL (long bonnet)	25 long bonnet	3.40	
148B5560	SVA-L 32 A ANG H-WHEEL (long bonnet)	32 long bonnet	3.00	
148B5660	SVA-L 40 A ANG H-WHEEL (long bonnet)	40 long bonnet	3.54	
148B5120	SVA-S 10 A ANG H-WHEEL	10	0.64	
148B5220	SVA-S 15 A ANG H-WHEEL	15	1.46	
148B5320	SVA-S 20 A ANG H-WHEEL	20	1.45	
148B5420	SVA-S 25 A ANG H-WHEEL	25	2.72	
148B5520	SVA-S 32 A ANG H-WHEEL	32	2.74	
148B5620	SVA-S 40 A ANG H-WHEEL	40	2.79	
148B5720	SVA-S 50 A ANG H-WHEEL	50	3.65	
148B5820	SVA-S 65 A ANG H-WHEEL	65	5.27	
148B5920	SVA-S 80 A ANG H-WHEEL	80	8.65	
148B6020	SVA-S 100 A ANG H-WHEEL	100	15.80	
148B6120	SVA-S 125 A ANG H-WHEEL	125	29.50	
148B6220	SVA-S 150 A ANG H-WHEEL	150	40.50	
148B6320	SVA-S 200 A ANG H-WHEEL	200	69.63	
148B3763	SVA-DL 250 A ANG H-WHEEL	250 *	148.00	
148B3773	SVA-DL 300 A ANG H-WHEEL	300 *	190.00	

**Note:** When a Capped valve is required purchase SVA with hand wheel and CAP separately  
 ~ Socket weld (SOC) versions of the steel valves up to 2" are available on request but will have long lead times.

## SVA-SS - Stainless Steel Butt Weld DIN stop valves

ANGLE	Cap	*52 bar -60 to 50 °C *40 bar +50>+150 °C **50bar-60>+50 °C **40 bar+50>+150 °C	STAINLESS STEEL OPTION 	
Code	Type	Size	Approx Weight	\$
148B5290	SVA-SS 15 D ANG CAP	15 *	0.78	
148B5378	SVA-SS 20 D ANG CAP	20 *	0.78	
148B5487	SVA-SS 25 D ANG CAP	25 *	0.78	
148B5567	SVA-SS 32 D ANG CAP	32 *	0.78	
148B5647	SVA-SS 40 D ANG CAP	40 *	0.78	
148B5754	SVA-SS 50 D ANG CAP	50 *	3.82	
148B5848	SVA-SS 65 D ANG CAP	65 *	5.50	
148B5928	SVA-SS 80 D ANG CAP	80 **	11.01	
148B6032	SVA-SS 100 D ANG CAP	100 **	15.30	
148B6126	SVA-SS 125 D ANG CAP	125 **	30.49	


## SVA - Caps

	Cap Only			
Code	Type	Size	Approx Weight	\$
148B4075	CAP SVA 15-20	15-20	0.09	
148B4076	CAP SVA 25-65	25-65	0.23	
148B4077	CAP SVA 80-100	80-100	0.50	
148B4078	CAP SVA 125-150	125-150	0.67	
148B4079	CAP SVA 200	200	1.70	

# STOP VALVES




## SVA-S & L - Butt Weld ANSI


STRAIGHT	Handwheel	52 bar and -60 to 150 °C	SVL Flexline™ - Line components 	
Code	Type	Size	Approx Weight	\$
148B5270	SVA-L 15 A STR H-WHEEL (long bonnet)	15 long bonnet	1.77	
148B5370	SVA-L 20 A STR H-WHEEL (long bonnet)	20 long bonnet	1.65	
148B5470	SVA-L 25 A STR H-WHEEL (long bonnet)	25 long bonnet	3.80	
148B5570	SVA-L 32 A STR H-WHEEL (long bonnet)	32 long bonnet	2.91	
148B5670	SVA-L 40 A STR H-WHEEL (long bonnet)	40 long bonnet	4.07	
148B5130	SVA-S 10 A STR H-WHEEL	10	2.00	
148B5230	SVA-S 15 A STR H-WHEEL	15	1.67	
148B5330	SVA-S 20 A STR H-WHEEL	20	1.65	
148B5430	SVA-S 25 A STR H-WHEEL	25	2.88	
148B5530	SVA-S 32 A STR H-WHEEL	32	3.32	
148B5630	SVA-S 40 A STR H-WHEEL	40	3.35	
148B5730	SVA-S 50 A STR H-WHEEL	50	4.24	
148B5830	SVA-S 65 A STR H-WHEEL	65	6.65	
148B5930	SVA-S 80 A STR H-WHEEL	80	8.65	
148B6030	SVA-S 100 A STR H-WHEEL	100	17.10	
148B6130	SVA-S 125 A STR H-WHEEL	125	35.10	
148B6230	SVA-S 150 A STR H-WHEEL	150	47.50	
148B6330	SVA-S 200 A STR H-WHEEL	200	75.63	

**Note:** When a Capped valve is required purchase SVA with hand wheel and CAP separately  
 ~ Socket weld (SOC) versions of the steel valves up to 2" are available on request but will have long lead times.

## SVA-SS - Stainless Steel Butt Weld DIN stop valves

STRAIGHT	Cap	52 bar -60 to 50 °C 40 bar 50 to 150 °C	STAINLESS STEEL OPTION 	
Code	Type	Size	Approx Weight	\$
148B5292	SVA-S SS 15 D STR CAP	15	1.71	
148B5380	SVA-S SS 20 D STR CAP	20	1.74	
148B5489	SVA-S SS 25 D STR CAP	25	3.32	
148B5569	SVA-S SS 32 D STR CAP	32	3.40	
148B5649	SVA-S SS 40 D STR CAP	40	3.18	
148B5756	SVA-S SS 50 D STR CAP	50	5.25	
148B5850	SVA-S SS 65 D STR CAP	65	7.09	


## SVA - Caps

	Cap Only			
Code	Type	Size	Approx Weight	\$
148B4075	CAP SVA 15-20	15-20	0.09	
148B4076	CAP SVA 25-65	25-65	0.23	
148B4077	CAP SVA 80-100	80-100	0.50	
148B4078	CAP SVA 125-150	125-150	0.67	
148B4079	CAP SVA 200	200	1.70	


# REGULATING VALVES



## REG-SA & SB - Butt Weld ANSI

<b>New REG-SA/B has a YELLOW cap</b>		52 bar and -60 to 150 °C	SVL Flexline™ – Line components	
<b>ANGLE</b>	Angle for expansion line "A" cone			
Code	Type	Size	Approx Weight	\$
148B5106	REG-SA 10 A ANG REGULATING VALVE	10	0.46	
148B5202	REG-SA 15 A ANG REGULATING VALVE	15	1.66	
148B5302	REG-SA 20 A ANG REGULATING VALVE	20	1.68	
148B5402	REG-SA 25 A ANG REGULATING VALVE	25	1.65	
148B5502	REG-SA 32 A ANG REGULATING VALVE	32	3.24	
148B5602	REG-SA 40 A ANG REGULATING VALVE	40	3.21	

Cone "A" is for expansion lines and cone "B" is for liquid regulation.


<b>New REG-SA/B has a YELLOW cap</b>		52 bar and -60 to 150 °C	SVL Flexline™ – Line components	
<b>ANGLE</b>	Angle for liquid regulation "B" cone			
Code	Type	Size	Approx Weight	\$
148B5107	REG-SB 10 A ANG REGULATING VALVE	10	0.43	
148B5203	REG-SB 15 A ANG REGULATING VALVE	15	1.64	
148B5303	REG-SB 20 A ANG REGULATING VALVE	20	1.65	
148B5403	REG-SB 25 A ANG REGULATING VALVE	25	1.66	
148B5503	REG-SB 32 A ANG REGULATING VALVE	32	3.19	
148B5603	REG-SB 40 A ANG REGULATING VALVE	40	3.11	
148B5706	REG-SB 50 A ANG REGULATING VALVE	50	3.92	
148B5806	REG-SB 65 A ANG REGULATING VALVE	65	5.91	


Cone "A" is for expansion lines and cone "B" is for liquid regulation.

Cone "B" has a Kv typically 3-4 times the Kv of cone "A" for the same line size.

Socket weld (SOC) versions of the steel valves up to 2" are available on request but will have extended lead times.

## REG-SS - Stainless Steel Butt Weld DIN REG valves

<b>New REG-SA/B has a YELLOW cap</b>		52 bar and -60 to +50 °C 40 bar +50 >+150 °C	STAINLESS STEEL OPTION	
<b>ANGLE</b>	Angle for expansion line "A" cone			
Code	Type	Size	Approx Weight	\$
148B5297	REG-SA SS 15 D ANG REGULATING VALVE	15	0.78	
148B5385	REG-SA SS 15 D ANG REGULATING VALVE	20	0.78	
148B5494	REG-SA SS 20 D ANG REGULATING VALVE	25	1.62	
148B5589	REG-SA SS 20 D ANG REGULATING VALVE	32	3.22	
148B5674	REG-SA SS 25 D ANG REGULATING VALVE	40	3.17	

<b>New REG-SA/B has a YELLOW cap</b>		52 bar and -60 to +50 °C 40 bar +50 >+150 °C	STAINLESS STEEL OPTION	
<b>ANGLE</b>	Angle for liquid regulation "B" cone			
Code	Type	Size	Approx Weight	\$
148B5387	REG-SB SS 15 D ANG REGULATING VALVE	15	0.78	
148B5389	REG-SB SS 15 D ANG REGULATING VALVE	20	0.78	
148B5496	REG-SB SS 20 D ANG REGULATING VALVE	25	1.59	
148B5591	REG-SB SS 20 D ANG REGULATING VALVE	32	3.19	
148B5676	REG-SB SS 25 D ANG REGULATING VALVE	40	3.15	




# REGULATING VALVES



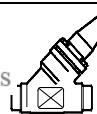
## REG-SA & SB - Butt Weld ANSI

**New REG-SA/B has a YELLOW cap**

<b>STRAIGHT</b>	Straight for expansion line "A" cone	52 bar and -60 to 150 °C	SVL Flexline™ – Line components 	
Code	Type	Size	Approx Weight	\$
148B5116	REG-SA 10 A STR REGULATING VALVE	10	0.47	
148B5212	REG-SA 15 A STR REGULATING VALVE	15	1.87	
148B5312	REG-SA 20 A STR REGULATING VALVE	20	1.89	
148B5412	REG-SA 25 A STR REGULATING VALVE	25	1.88	
148B5512	REG-SA 32 A STR REGULATING VALVE	32	3.73	
148B5612	REG-SA 40 A STR REGULATING VALVE	40	3.65	

Cone "A" is for expansion lines and cone "B" is for liquid regulation.

**New REG-SA/B has a YELLOW cap**

<b>STRAIGHT</b>	Straight for liquid regulation "B" cone	52 bar and -60 to 150 °C	SVL Flexline™ – Line components 	
Code	Type	Size	Approx Weight	\$
148B5117	REG-SB 10 A STR REGULATING VALVE	10	0.47	
148B5213	REG-SB 15 A STR REGULATING VALVE	15	2.00	
148B5313	REG-SB 20 A STR REGULATING VALVE	20	1.95	
148B5413	REG-SB 25 A STR REGULATING VALVE	25	2.01	
148B5513	REG-SB 32 A STR REGULATING VALVE	32	3.89	
148B5613	REG-SB 40 A STR REGULATING VALVE	40	3.81	


Cone "A" is for expansion lines and cone "B" is for liquid regulation.

Cone "B" has a Kv typically 3-4 times the Kv of cone "A" for the same line size.


Socket weld (SOC) versions of the steel valves up to 2" are available on request but have extended lead times

## REG-SS - Stainless Steel Butt Weld DIN REG valves

**New REG-SA/B has a YELLOW cap**

<b>STRAIGHT</b>	Straight for expansion line "A" cone	52 bar and -60 to +50 °C 40 bar +50> +150 °C	STAINLESS STEEL OPTION 	
Code	Type	Size	Approx Weight	\$
148B5298	REG-SA SS 15 D STR REGULATING VALVE	15	0.78	
148B5386	REG-SA SS 20 D STR REGULATING VALVE	20	0.78	
148B5495	REG-SA SS 25 D STR REGULATING VALVE	25	1.88	
148B5590	REG-SA SS 32 D STR REGULATING VALVE	32	3.62	
148B5675	REG-SA SS 32 D STR REGULATING VALVE	40	3.25	


**New REG-SA/B has a YELLOW cap**

<b>STRAIGHT</b>	Straight for expansion line "B" cone	52 bar and -60 to +50 °C 40 bar +50> +150 °C	STAINLESS STEEL OPTION 	
Code	Type	Size	Approx Weight	\$
148B5388	REG-SA SS 15 D STR REGULATING VALVE	15	0.78	
148B5390	REG-SA SS 20 D STR REGULATING VALVE	20	0.78	
148B5497	REG-SA SS 25 D STR REGULATING VALVE	25	1.88	
148B5592	REG-SA SS 32 D STR REGULATING VALVE	32	3.62	
148B5677	REG-SA SS 32 D STR REGULATING VALVE	40	3.25	

## ACCESSORIES



### SNV - Needle Valves

ANGLE		52 bar and -60 to 150 °C		
Code		Type	Approx Weight	\$
148B3746	SNV-ST 1/4 FPT X 1/4 MPT <sup>1) 6)</sup>	1/4"	0.39	
148B4232	SNV-ST 1/4FPT-1/4MPT L100 <sup>4)</sup>	1/4"	0.61	
148B3747	SNV-ST 3/8 FPT X 3/8 MPT <sup>2)</sup>	3/8"	0.39	
148B3745	SNV-ST G 1/2 X G 1/2 <sup>5)</sup>	1/2"	0.39	
148B3769	SNV-ST G 1/2 X W 1/2 L100 <sup>7)</sup>	1/2"	0.59	
148B4224	SNV-ST 1/2" MPT X 1/2" MPT <sup>4)</sup>	1/2"	0.39	
148B3778	SNV-ST G 1/2 MAN <sup>3)</sup>	1/2"	0.52	
148H3450	Blind nut including gasket G1/2"	1/2"	0.06	
027B2062	ICS/PM Pressure Gauge Adaptor(G1/4-1/4NPT) <sup>9)</sup>		0.10	
148B4576	SNV cap and gasket (spare part)		0.08	

<sup>1)</sup> For PM & ICS valve gauge ports in conjunction with ICS/PM Pressure Gauge Adaptor G1/4-1/4NPT

<sup>2)</sup> For ICF (SOC weld version) valve side ports

<sup>3)</sup> 1/2" G female swivel nuts both ends CW 3/8" to 1/2" adaptor

<sup>4)</sup> only to be ordered in lots of 30 pcs

<sup>5)</sup> Suitable as FIA 50 to 200 as a purge valve, 148H3450 blind nut and gasket to be purchased separately if required


<sup>6)</sup> Suitable as FIA15 to 40 as a purge valve

<sup>7)</sup> Suitable for LLG


<sup>8)</sup> only to be ordered in lots of 20 pcs

<sup>9)</sup> use 148B3746 SNV-ST 1/4 NPT & 027B2062 ICS/PM Pressure Gauge Adaptor G1/4-1/4NPT together in gauge port.

### SNV-SS - Stainless Steel Needle Valves



ANGLE		52 bar and -60 to 150 °C	STAINLESS STEEL OPTION		
Code		Type	Approx Weight	\$	
148B4265	W½ L50 SNV-SS G1/2-W1/2 L50	1/2"	0.43		
148B4266	W½ L150 SNV-SS G1/2-W1/2 L150	1/2"	0.61		
148B4317	Blind nut SS incl. gasket	1/2"	0.06		

**STRAINERS****FIA - Butt Weld ANSI (without filter insert)**


ANGLE		52 bar and -60 to 150 °C	SVL Flexline™ – Line components 	
Code	Type	Size	Approx Weight	\$
148B5244	FIA 15 A ANG FILTER HOUSING	15	1.00	
148B5344	FIA 20 A ANG FILTER HOUSING	20	1.23	
148B5444	FIA 25 A ANG FILTER HOUSING	25	1.50	
148B5545	FIA 32 A ANG FILTER HOUSING	32	2.40	
148B5642	FIA 40 A ANG FILTER HOUSING	40	2.05	
148B5714	FIA 50 A ANG FILTER HOUSING	50	2.80	
148B5814	FIA 65 A ANG FILTER HOUSING	65	3.65	
148B5907	FIA 80 A ANG FILTER HOUSING	80	5.10	
148B6008	FIA 100 A ANG FILTER HOUSING	100	7.50	
148B6107	FIA 125 A ANG FILTER HOUSING	125	15.40	
148B6204	FIA 150 A ANG FILTER HOUSING	150	29.50	
148B6304	FIA 200 A ANG FILTER HOUSING	200	68.00	
		40bar and -60 to 150 °C		
148H3173	FIA 250 A ANG FILTER HOUSING	250 ****		
148H3174	FIA 300 A ANG FILTER HOUSING	300 ****		

Socket weld (SOC) versions of the steel valves up to 2" are available on request but have extended lead times

**FIA-SS - Stainless Steel Butt Weld DIN (without filter insert)**

ANGLE		52 bar and -60 to 50 °C 40bar and +50 > +150 °C	STAINLESS STEEL OPTION 	
Code	Type	Size	Approx Weight	\$
148B5295	FIA-SS 15 D ANG FILTER HOUSING	15	0.78	
148B5383	FIA-SS 20 D ANG FILTER HOUSING	20	1.27	
148B5492	FIA-SS 25 D ANG FILTER HOUSING	25	2.19	
148B5587	FIA-SS 32 D ANG FILTER HOUSING	32	2.22	
148B5666	FIA-SS 40 D ANG FILTER HOUSING	40	2.29	
148B5757	FIA-SS 50 D ANG FILTER HOUSING	50	2.67	
148B5851	FIA-SS 65 D ANG FILTER HOUSING	65	4.14	

**FIA ACCESSORIES - Purge Valves**

		52 bar and -60 to 150 °C		
Code	Type	Size	Approx Weight	\$
148B3745	SNV-ST G 1/2 X G 1/2 <sup>5)</sup>	1/2"	0.39	
148B3746	SNV-ST 1/4 FPT X 1/4 MPT <sup>6)</sup>	1/4"	0.39	
148H3450	Blind nut including gasket G1/2"	1/2"	0.06	

<sup>5)</sup> Suitable as FIA 50 to 200 as a purge valve, 148H3450 blind nut and gasket to be purchased separately if required

<sup>6)</sup> Suitable as FIA15 to 40 as a purge valve, 148H3450 blind nut and gasket to be purchased separately if required

# STRAINERS



## FIA - Butt Weld ANSI (without filter insert)

STRAIGHT		52 bar and -60 to 150 °C	SVL Flexline™ – Line components	
Code	Type	Size	Approx Weight	\$
148B5247	FIA 15 A STR FILTER HOUSING	15	1.45	
148B5347	FIA 20 A STR FILTER HOUSING	20	1.33	
148B5447	FIA 25 A STR FILTER HOUSING	25	1.50	
148B5552	FIA 32 A STR FILTER HOUSING	32	2.57	
148B5644	FIA 40 A STR FILTER HOUSING	40	2.23	
148B5716	FIA 50 A STR FILTER HOUSING	50	3.05	
148B5815	FIA 65 A STR FILTER HOUSING	65	3.59	
148B5908	FIA 80 A STR FILTER HOUSING	80	5.15	
148B6009	FIA 100 A STR FILTER HOUSING	100	7.60	
148B6108	FIA 125 A STR FILTER HOUSING	125	37.89	
148B6205	FIA 150 A STR FILTER HOUSING	150	29.50	
148B6305	FIA 200 A STR FILTER HOUSING	200	99.00	

~ Socket weld (SOC) versions of the steel valves up to 2" are available on request but will have long lead times.

## FIA-SS - Stainless Steel Butt Weld DIN (without filter insert)

STRAIGHT		52 bar and -60 to +50 °C 40 bar +50 > +150 °C	STAINLESS STEEL OPTION		
Code	Type	Size	Approx Weight	\$	
148B5296	FIA-SS 15 D STR FILTER HOUSING	15	1.27		
148B5384	FIA-SS 20 D STR FILTER HOUSING	20	1.47		
148B5493	FIA-SS 25 D STR FILTER HOUSING	25	2.70		
148B5588	FIA-SS 32 D STR FILTER HOUSING	32	2.70		
148B5667	FIA-SS 40 D STR FILTER HOUSING	40	2.80		
148B5758	FIA-SS 50 D STR FILTER HOUSING	50	3.42		
148B5852	FIA-SS 65 D STR FILTER HOUSING	65	5.48		

## FIA ACCESSORIES - Purge Valves

		52 bar and -60 to 150 °C		
Code	Type	Approx Weight	\$	
148B3745	SNV-ST G 1/2 X G 1/2 <sup>5)</sup>	0.39		
148B3746	SNV-ST 1/4 FPT X 1/4 MPT <sup>6)</sup>	0.39		
148H3450	Blind nut including gasket G1/2"	0.06		

<sup>5)</sup> Suitable as FIA 50 to 200 as a purge valve, 148H3450 blind nut and gasket to be purchased separately if required

<sup>6)</sup> Suitable as FIA15 to 40 as a purge valve, 148H3450 blind nut and gasket to be purchased separately if required

## FA - Strainers Inline Mounting (includes flanges and bolts)

STRAIGHT		28 bar and -50 to 140 °C		
Code	Type	Size	Approx Weight	\$
006-0052	FA 15 STRAINER 1/2" WELD FLANGES	15	1.83	
006-0066	FA 20 STRAINER 3/4" WELD FLANGES	20	2.80	



**Note:** includes 150u filter insert

Not to be used for direct mounting to EVRA's etc. For separate inline application only.




# STRAINERS



FIA - Standard Filter Inserts		Standard FIA Inserts 		
Code	Type	Size	Approx Weight	\$
148H3122	FIA 15-20 INSERT 100u	15 / 20	2.21	
148H3124	FIA 15-20 INSERT 150u	15 / 20	0.02	
148H3128	FIA 15-20 INSERT 500u	15 / 20	0.03	
148H3126	FIA 15-20 INSERT 250u	15 / 20	0.03	
148H3123	FIA 25-40 INSERT 100u	25 / 32 / 40	0.05	
148H3125	FIA 25-40 INSERT 150u	25 / 32 / 40	0.05	
148H3127	FIA 25-40 INSERT 250u	25 / 32 / 40	0.05	
148H3129	FIA 25-40 INSERT 500u	25 / 32 / 40	0.05	
148H3157	FIA 50 INSERT 100u	50	0.06	
148H3130	FIA 50 INSERT 150u	50	0.06	
148H3138	FIA 50 INSERT 250u	50	0.06	
148H3144	FIA 50 INSERT 500u	50	0.06	
148H3131	FIA 65 INSERT 150u	65	0.08	
148H3139	FIA 65 INSERT 250u	65	0.08	
148H3145	FIA 65 INSERT 500u	65	0.08	
148H3119	FIA 80 INSERT 150u	80	0.15	
148H3120	FIA 80 INSERT 250u	80	0.15	
148H3121	FIA 80 INSERT 500u	80	0.15	
148H3132	FIA 100 INSERT 150u	100	0.34	
148H3140	FIA 100 INSERT 250u	100	0.32	
148H3146	FIA 100 INSERT 500u	100	0.32	
148H3133	FIA 125 INSERT 150u	125	0.45	
148H3141	FIA 125 INSERT 250u	125	0.46	
148H3147	FIA 125 INSERT 500u	125	0.47	
148H3134	FIA 150 INSERT 150u	150	0.67	
148H3142	FIA 150 INSERT 250u	150	0.68	
148H3148	FIA 150 INSERT 500u	150	0.68	
148H3143	FIA 200 INSERT 250u	200	0.96	
148H3175	FIA 250 INSERT 250u	250	3.00	
148H3137	FIA 300 INSERT 150u	300	3.52	
148H3178	FIA 300 INSERT 500u	300		
148H3150	FIA-BAG 50 50my FILTER BAG	50	0.07	
148H3151	FIA-BAG 65 50my FILTER BAG	65	0.08	
148H3152	FIA-BAG 80 50my FILTER BAG	80	0.17	
148H3153	FIA-BAG 100 50my FILTER BAG	100	0.35	
148H3154	FIA-BAG 125 50my FILTER BAG	125	0.51	
148H3155	FIA-BAG 150 50my FILTER BAG	150	0.75	
148H3156	FIA-BAG 200 50my FILTER BAG	200	1.05	
148H3446	Magnetic Insert 50	50	0.33	
148H3447	Magnet insert 65 - 100	65 - 100	0.47	
148H3448	Magnet insert 125 - 200	125 - 200	0.60	

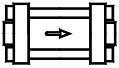
**Note:** Top cover gasket does not come with insert, but comes with FIA body or as a spare part

FIA - Pleated Inserts				
Code	Type	Size	Approx Weight	\$
148H3303	FIA 15-20 INSERT PLEATED 150u	15 / 20	0.03	
148H3363	FIA 15-20 INSERT PLEATED 250u	15 / 20	0.03	
148H3304	FIA 25-40 INSERT PLEATED 150u	25 / 32 / 40	0.06	
148H3269	FIA 25-40 INSERT PLEATED 250u	25 / 32 / 40	0.05	
148H3179	FIA 50 INSERT PLEATED 150u	50	0.07	
148H3184	FIA 50 INSERT PLEATED 250u	50	0.07	
148H3189	FIA 50 INSERT PLEATED 500u	50	0.06	
148H3185	FIA 65 INSERT PLEATED 250u	65	0.09	
148H3181	FIA 80 INSERT PLEATED 150u	80	0.16	
148H3186	FIA 80 INSERT PLEATED 250u	80	0.17	
148H3191	FIA 80 INSERT PLEATED 500u	80	0.16	
148H3182	FIA 100 INSERT PLEATED 150u	100	0.37	
148H3183	FIA 125 INSERT PLEATED 500u	125	0.50	
148H3226	FIA 150 INSERT PLEATED 150u	150	1.00	
148H3297	FIA 200 INSERT PLEATED 150u	200		


Below are general recommendations of mesh size by application

<i>Liquid Lines</i>		
Ahead of pumps: .....	500µ	[38 mesh]
After pumps: .....	150µ	[100 mesh] / 250µ [72 mesh]
In front of AKVA valves .....	100µ	[150 mesh]
<i>Protection of automatic regulation equipment</i>		
Generally .....	150µ	[100 mesh] / 250µ [72 mesh]
Sensitive equipment, e.g. suction regulators with low temperature .....	250µ	[72 mesh]
<i>Suction Lines</i>		
Ahead of screw compressor .....	250µ	[72 mesh]
Ahead of piston compressor .....	150µ	[100 mesh]

**CHECK VALVES****NRVA - Check Valves complete with weld flanges**


<b>STRAIGHT</b>		<b>40 bar and -50 to 140 °C</b>		
Code	Type	Size	Approx Weight	\$
020-2000	NRVA 15 INCL FLANGES	15	1.04	
020-2001	NRVA 20 INCL FLANGES	20	1.00	
020-2002	NRVA 25 INCL FLANGES	25	3.19	
020-2003	NRVA 32 INCL FLANGES	32	3.11	
020-2004	NRVA 40 INCL FLANGES	40	5.28	
020-2005	NRVA 50 INCL FLANGES	50	5.22	
020-2006	NRVA 65 INCL FLANGES	65	13.43	

**NRVS - Check Valves direct mounting  
ONLY FOR LIQUID LINES**


<b>STRAIGHT</b>		<b>28 bar and -50 to 140 °C</b>		
Code	For Valve Type	Type	Approx Weight	\$
020-2032	EVRA/T 10-15	NRVS 15	0.08	
020-2033	EVRA/T 20-25, PM 15-25	NRVS 25	0.23	
027N1255	NRVS 15 FLANGES 3/4"	NRVS 15	0.59	
027N1254	NRVS 25 FLANGES 1"	NRVS 25	1.00	

**Note:** NRVS only compatible with special NRVS flanges listed above  
For use in liquid lines only

**CHV-X - Check Valves**

<b>ANGLE</b>		<b>52 bar and -60 to 150 °C</b>	<b>SVL Flexline™</b> - Line components	
Code	Type	Size	Approx Weight	\$
148B5237	CHV-X 15 A ANG CHECK VALVE	15	1.29	
148B5337	CHV-X 20 A ANG CHECK VALVE	20	1.31	
148B5437	CHV-X 25 A ANG CHECK VALVE	25	2.57	
148B5537	CHV-X 32 A ANG CHECK VALVE	32	2.35	
148B5637	CHV-X 40 A ANG CHECK VALVE	40	2.68	
148B5737	CHV-X 50 A ANG CHECK VALVE	50	3.10	
148B5837	CHV-X 65 A ANG CHECK VALVE	65	4.28	
148B5937	CHV-X 80 A ANG CHECK VALVE	80	9.47	
148B6037	CHV-X 100 A ANG CHECK VALVE	100	14.10	
148B6137	CHV-X 125 A ANG CHECK VALVE	100	33.61	


**CHV-X - Stainless Steel Check Valves**

<b>ANGLE</b>		<b>52 bar -60 to +50 °C</b> 40 <b>bar +50 &gt; +150 °C</b>	<b>STAINLESS STEEL OPTION</b>	
Code	Type	Size	Approx Weight	\$
148B5294	CHV-X SS 15 D ANG CHECK VALVE	15	1.28	
148B5382	CHV-X SS 20 D ANG CHECK VALVE	20	1.28	
148B5491	CHV-X SS 25 D ANG CHECK VALVE	25	2.52	
148B5586	CHV-X SS 32 D ANG CHECK VALVE	32	2.57	
148B5665	CHV-X SS 40 D ANG CHECK VALVE	40	2.60	


# STOP CHECK AND OVERFLOW VALVES




## SCA-X - Stop Check Valves

<b>New SCA-X has a GREEN cap</b>		<b>52 bar and -60 to 150 °C</b>	SVL Flexline™ – Line components 	
<b>ANGLE</b>				
Code	Type	Size	Approx Weight	\$
148B5209	SCA-X 15 A ANG STOP/CHECK VALVE	15	1.75	
148B5309	SCA-X 20 A ANG STOP/CHECK VALVE	20	1.78	
148B5409	SCA-X 25 A ANG STOP/CHECK VALVE	25	3.49	
148B5509	SCA-X 32 A ANG STOP/CHECK VALVE	32	3.54	
148B5609	SCA-X 40 A ANG STOP/CHECK VALVE	40	3.61	
148B5703	SCA-X 50 A ANG STOP/CHECK VALVE	50	4.93	
148B5802	SCA-X 65 A ANG STOP/CHECK VALVE	65	7.55	
148B5903	SCA-X 80 A ANG STOP/CHECK VALVE	80	11.50	
148B6004	SCA-X 100 A ANG STOP/CHECK VALVE	100	18.43	
148B6103	SCA-X 125 A ANG STOP/CHECK VALVE	125	36.50	


## SCA-X - Stainless Steel Stop Check Valves

<b>ANGLE</b>		<b>52 bar and -60 to +50 °C</b> <b>40 bar +50 &gt; +150 °C</b>	STAINLESS STEEL OPTION 	
Code	Type	Size	Approx Weight	\$
148G5293	SCA-X SS 15 D ANG STOP/CHECK	15	1.74	
148G5381	SCA-X SS 20 D ANG STOP/CHECK	20	1.75	
148G5490	SCA-X SS 25 D ANG STOP/CHECK	25	3.39	
148G5585	SCA-X SS 32 D ANG STOP/CHECK	32	3.45	
148G5664	SCA-X SS 40 D ANG STOP/CHECK	40	3.49	


## OFV - Overflow Valves

<b>ANGLE</b>		<b>40 bar and -50 to 150 °C</b>		
Code	Type	Size	Approx Weight	\$
2412+185	OFV 20 A OVER FLOW VALVE	20	2.26	
2412+186	OFV 25 A OVER FLOW VALVE	25	2.16	

## OFV - Stainless Steel Overflow Valves

<b>ANGLE</b>		<b>52 bar and -60 to 150 °C</b>	STAINLESS STEEL OPTION 	
Code	Type	Size	Approx Weight	\$
148G3194	OFV-SS 20 D ANG OVER FLOW	20	2.27	
148G3195	OFV-SS 25 D ANG OVER FLOW	25	2.20	

## QDV - Quick Drain Valves

<b>ANGLE</b>		<b>40 bar and -50 to 150 °C</b>		
Code	Type	Size	Approx Weight	\$
148H3272	QDV 15 D OIL DRAIN VALVE	15	1.55	
148H3452	QDV WELD CONNECTION SET <sup>1)</sup>	15	0.13	
148H3451	QDV HOSE CONNECTION SET	15		

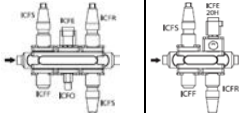
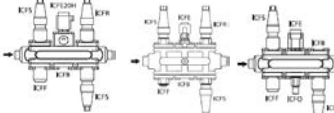
Note: <sup>1)</sup> Most common used connection

# ICF Valve Stations

ICF Flexline™  
– Complete valve stations

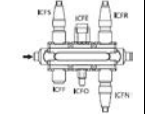
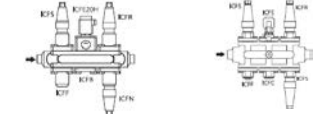


## Pumped Liquid Application (without hot gas defrost)

		STRAIGHT	52 bar and -60 to 120 °C		
Code	Type	Size	Approx Weight	\$	
027L4530	ICF 15-4-10HRB (1/2" Soc) <sup>1)</sup>	15	7.80		
027L3005	ICF 20-6-1RA (3/4" Soc) <sup>2)</sup>	20	10.42		
027L3007	ICF 20-6-1RA (1" Soc) <sup>2)</sup>	25	9.89		
027L3008	ICF 20-6-1RA (1.1/4" Soc) <sup>2)</sup>	32	10.06		
027L3408	ICF 20-6-1HRB (1" Soc) <sup>2)</sup> (ex 027L3305)	25	7.80		
027L3409	ICF 20-6-1HRB (1.1/4" Soc) <sup>2)</sup>	32	7.80		
027L4003	ICF 25-6-1RA (1" Soc) <sup>3)</sup>	25	24.07		
027L4013	ICF 25-6-1RB (1.1/4" Soc) <sup>3)</sup>	32	24.16		
027L4017	ICF 25-6-1RB (1.1/2" Soc) <sup>3)</sup>	40	24.73		

- <sup>1)</sup> Stop valve, strainer (insert incl), solenoid with manual stem, reg valve
- <sup>2)</sup> Stop valve, strainer (insert incl), solenoid, manual stem, reg valve, stop valve
- <sup>3)</sup> Stop valve, strainer (insert incl), solenoid with manual stem, blank, reg valve, stop valve

## Pumped Liquid Application (with hot gas defrost)

		STRAIGHT	52 bar and -60 to 120 °C		
Code	Type	Size	Approx Weight	\$	
027L3014	ICF 20-6-2RA (3/4" Soc) <sup>1)</sup>	20	10.09		
027L3016	ICF 20-6-2RA (1" Soc) <sup>1)</sup>	25	9.93		
027L3017	ICF 20-6-2RA (1.1/4" Soc) <sup>1)</sup>	32	9.95		
027L3412	ICF 20-6-2HRB (1" Soc) <sup>2)</sup>	25	7.80		
027L3413	ICF 20-6-2HRB (1.1/4" Soc) <sup>2)</sup>	32	7.80		
027L4021	ICF 25-6-3RA (1" Soc) <sup>3)</sup>	25	24.23		
027L4026	ICF 25-6-3RA (1.1/4" Soc) <sup>3)</sup>	32	24.14		
027L4031	ICF 25-6-3RB (1.1/4" Soc) <sup>3)</sup>	32	24.15		
027L4035	ICF 25-6-3RB (1.1/2" Soc) <sup>3)</sup>	40	24.23		

- <sup>1)</sup> Stop valve, strainer (insert incl), solenoid, manual stem, reg valve, stop check valve
- <sup>2)</sup> Stop valve, strainer (insert incl), solenoid with manual stem, blank, reg valve, stop check valve
- <sup>3)</sup> Stop valve, strainer (insert incl), solenoid with manual stem, Check, reg valve, stop valve

## Pumped Liquid Application Multiple Evaps (without hot gas defrost)

Code	Type	Size	Approx Weight	\$	
027L4526	ICF 15-4-8 (1/2" Soc) <sup>1)</sup>	15	9.44		
027L4527	ICF 15-4-9H (1/2" Soc) <sup>2)</sup>	15	9.44		
027L3124	ICF 20-6-4 (3/4" Soc) <sup>3)</sup>	20	9.40		
027L3032	ICF 20-6-4 (1" Soc) <sup>3)</sup>	25	9.28		
027L3351	ICF 20-4-9H (3/4" Soc) <sup>4)</sup>	20	8.00		
027L3336	ICF 20-4-9H (1" Soc) <sup>4)</sup>	25	8.07		
027L3337	ICF 20-4-9H (1.1/4" Soc) <sup>4)</sup>	32	7.95		
027L4064	ICF 20-4-9 (1" Soc) <sup>4)</sup>	25	16.04		
027L4069	ICF 20-4-9 (1.1/4" Soc) <sup>4)</sup>	32	16.02		
027L4073	ICF 20-4-9 (1.1/2" Soc) <sup>4)</sup>	40	16.08		

- <sup>1)</sup> Stop valve, strainer (insert incl), solenoid, manual stem
- <sup>2)</sup> Stop valve, strainer (insert incl), solenoid with manual stem, stop valve
- <sup>3)</sup> Stop valve, strainer (insert incl), solenoid, manual stem, Blank, stop valve
- <sup>4)</sup> Stop valve, strainer (insert incl), solenoid with manual stem, stop valve

## Pumped Liquid Application Multiple Evaps (with hot gas defrost)

Code	Type	Size	Approx Weight	\$	
027L3150	ICF 20-6-19 (3/4" Soc) <sup>1)</sup>	20	9.44		
027L3353	ICF 20-4-18H (3/4" Soc) <sup>2)</sup>	20	9.44		
027L3354	ICF 20-4-18H (1" Soc) <sup>2)</sup>	25	7.97		
027L3355	ICF 20-4-18H (1.1/4" Soc) <sup>2)</sup>	32	7.97		
027L4136	ICF 25-4-18 (1" Soc) <sup>2)</sup>	25	16.92		
027L4137	ICF 25-4-18 (1.1/4" Soc) <sup>2)</sup>	32	16.05		
027L4138	ICF 25-4-18 (1.1/2" Soc) <sup>2)</sup>	40	16.24		

- <sup>1)</sup> Stop valve, strainer (insert incl), solenoid, manual stem, blank, stop check valve
- <sup>2)</sup> Stop valve, strainer (insert incl), solenoid with manual stem, stop check valve

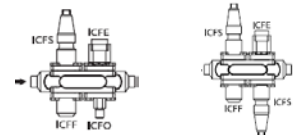


# ICF Valve Stations

**ICF Flexline™**  
– Complete valve stations

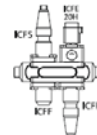


## Hot Gas or Liquid Line Application (without REG valve)

STRAIGHT		52 bar and -60 to 120 °C		
Code	Type	Size	Approx Weight	\$
027L4526	ICF 15-4-8 (1/2" Soc) <sup>1)</sup>	15	0.78	
027L4527	ICF 15-4-9H (1/2" Soc) <sup>2)</sup>	15	0.78	
027L3124	ICF 20-6-4 (3/4" Soc) <sup>3)</sup>	20	9.40	
027L3032	ICF 20-6-4 (1" Soc) <sup>3)</sup>	25	9.28	
027L3351	ICF 20-4-9H (3/4" Soc) <sup>2)</sup>	20	8.50	
027L3336	ICF 20-4-9H (1" Soc) <sup>2)</sup>	25	8.59	
027L3337	ICF 20-4-9H (1.1/4" Soc) <sup>2)</sup>	32	8.57	
027L4064	ICF 25-4-9 (1" Soc) <sup>2)</sup>	25	16.97	
027L4069	ICF 25-4-9 (1.1/4" Soc) <sup>2)</sup>	32	17.60	
027L4073	ICF 25-4-9 (1.1/2" Soc) <sup>2)</sup>	40	17.02	

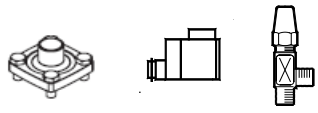
- <sup>1)</sup> Stop valve, strainer (insert included), solenoid, manual stem
- <sup>2)</sup> Stop valve, strainer (insert incl), solenoid with manual stem, stop valve
- <sup>3)</sup> Stop valve, strainer (insert incl), solenoid, manual stem, blank, stop valve

## Hot Gas or Liquid Line Application (with REG valve)

STRAIGHT		52 bar and -60 to 120 °C		
Code	Type	Size	Approx Weight	\$
027L4530	ICF 15-4-10HRB (Soc) <sup>1)</sup>	15	0.78	
027L3005	ICF 20-6-1RA (3/4" Soc) <sup>2)</sup>	20	10.42	
027L3007	ICF 20-6-1RA (1" Soc) <sup>2)</sup>	25	9.89	
027L3008	ICF 20-6-1RA (1 1/4" Soc) <sup>2)</sup> (new)	32	10.06	
027L3404	ICF 20-4-10HRB (3/4" Soc) <sup>1)</sup> (ex 027L3350)	20	0.78	
027L3402	ICF 20-4-10HRB (1" Soc) <sup>1)</sup> (ex 027L3342)	25	0.78	
027L3403	ICF 20-4-10HRB (1 1/4" Soc) <sup>1)</sup> (ex 027L3343)	32	0.78	
027L4077	ICF 25-4-10RA (1"soc) <sup>1)</sup>	25	15.85	
027L4087	ICF 25-4-10RB (1 1/4" Soc) <sup>1)</sup>	32	16.24	
027L4091	ICF 40-4-10RB (1 1/2" Soc) <sup>1)</sup>	40	16.19	

- <sup>1)</sup> Stop valve, strainer (insert included), solenoid with manual stem, reg valve
- <sup>2)</sup> Stop valve, strainer (insert included), solenoid, manual stem, reg valve, stop valve

## ICF - ACCESSORIES

Always install at least 1 X 3/8" NPT SNV in ICF's for ease of service				
Code	Type	Size	Approx Weight	\$
018F6702	COIL 240 VAC TERMINAL BOX	10 WATT	0.31	
018F6710	COIL 115 VAC TERMINAL BOX	10 WATT	0.31	
018F6707	COIL 24 VAC TERMINAL BOX	10 WATT	0.29	
018Z6591	COIL 240 VAC EX zone 2	10WATT		
018F6802	COIL 240 VAC TERMINAL BOX	12 WATT	0.49	
018F6807	COIL 24 VAC TERMINAL BOX	12 WATT	0.49	
018F6857	COIL 24 VDC TERMINAL BOX	20 WATT	0.49	
027L1259	ICFB 20 BLIND MODULE, SPARE PART	20	0.52	
027L2259	ICFB 25 BLIND MODULE, SPARE PART	25	1.14	
027L2263	ICFW 25, 1" SOC WELDING MODULE	25	1.34	
027L1269	SIGHT GLASS 3/8-18 NPT	3/8"	0.04	
148B3747	SNV-ST 3/8 FPT X 3/8 MPT <sup>2)</sup>	3/8"	0.39	

<sup>2)</sup> for ICF valve side ports compatible with 148B3747.

**ICF Flexline™ extra descriptive letters added**

> ICF 20-6-2HRB (1" Soc)

> 6 = number of modules

> 2 = application

> H = high capacity solenoid module

> R = REG valve fitted

> B = B capacity REG fitted

# ICF Valve Stations

ICF Flexline™  
– Complete valve stations



## Liquid Make-up or DX Application (with AKVA function)

	<b>STRAIGHT</b>	<b>52 bar and -60 to 120 °C</b>		
Code	Type	Size	Approx Weight	\$
027L4528	ICF 15-4-12 (1/2" Soc) <sup>1)</sup>	15	0.78	
027L4529	ICF 4-13 (1/2" Soc) <sup>2)</sup>	15	0.78	
027L3055	ICF 20-6-6 (3/4" Soc) <sup>3)</sup>	20	9.26	

Note: ICFA modules have #8 AKVA10 orifice fitted. Use codes for AKVA10 orifices ON page I48 for alternatives.

- <sup>1)</sup> Stop valve, strainer (insert included), AKVA (ICFA), stop valve
- <sup>2)</sup> Stop valve, strainer (insert included), AKVA (ICFA), stop check valve
- <sup>3)</sup> Stop valve, strainer (insert included), solenoid, manual stem, AKVA (ICFA), stop valve

## Liquid Make-up or DX Application (with ICM function)

	<b>STRAIGHT</b>	<b>52 bar and -60 to 120 °C</b>		
Code	Type	Size	Approx Weight	\$
027L4531	ICF 15-4-14MA (1/2" Soc) <sup>1)</sup>	15		
027L3154	ICF 20-6-5MA33 (3/4" Soc) <sup>2)</sup>	20	10.07	
027L3038	ICF 20-6-5MA (3/4" Soc) <sup>2)</sup>	20	9.98	
027L3040	ICF 20-6-5MA (1" Soc) <sup>2)</sup>	25	10.07	
027L3160	ICF 20-6-5MB66 (1" Soc) <sup>2)</sup>	25	10.46	
027L3045	ICF 20-6-5MB (1" Soc) <sup>1)</sup>	25	10.05	
027L3326	ICF 20-6-5HMB (1" Soc) <sup>3)</sup>	25	11.00	
027L3331	ICF 20-6-5HMC (1.1/4" Soc) <sup>3)</sup>	32	11.00	
027L4044	ICF 25-6-5MA (1.1/4" Soc) <sup>3)</sup>	32	23.17	
027L4132	ICF 25-6-5MA (1 1/2" Soc) <sup>3)</sup>	40	23.15	

- <sup>1)</sup> Stop valve, strainer (insert incl), ICM, stop valve
- <sup>2)</sup> Stop valve, strainer (insert incl), solenoid, manual stem, ICM, stop valve
- <sup>3)</sup> Stop valve, strainer (insert incl), solenoid with manual stem, blank, ICM, stop valve
- \*\*\* ICAD to be ordered separately

## ICF - ACCESSORIES

Always install at least 1 x 3/8" NPT SNV in ICF's for ease of service etc.				
Code	Type	Approx Weight	\$	
018F6702	COIL 240 VAC TERMINAL BOX	10 WATT	0.31	
018F6710	COIL 115 VAC TERMINAL BOX	10 WATT	0.31	
018F6707	COIL 24 VAC TERMINAL BOX	10 WATT	0.29	
018Z6591	COIL 240 VAC EX zone 2	10WATT		
018F6802	COIL 240 VAC 12 W (AKVA's)	12 WATT	0.49	
018F6807	COIL 24 VAC TERMINAL BOX	12 WATT	0.49	
018F6901	COIL 24 VAC 20 W (AKVA's)	20 WATT	0.61	
018F6857	COIL 24 VDC TERMINAL BOX	20 WATT	0.49	
027L1259	ICFB 20 BLIND MODULE, SPARE PART	20	0.52	
027L2259	ICFB 25 BLIND MODULE, SPARE PART	25	1.14	
027L2263	ICFW 25, 1" SOC WELDING MODULE	25	1.34	
027L1269	SIGHT GLASS 3/8-18 NPT	3/8"	0.04	
148B3747	SNV-ST 3/8 FPT X 3/8 MPT <sup>1)</sup>	3/8"	0.39	
027H9075	ICAD 600A ACTUATOR FOR ICM		1.28	
027H0180	ICM 20-32 MULTI FUNCTION TOOL		0.16	
027H0431	PROTECTIVE CAP FOR GEN 2 ICAD's		0.14	

<sup>1)</sup> for ICF valve side ports compatible with 148B3747.

Note: DC Coil will only just fit with the ICFE20 solenoid module as other may hit the ICAD600A

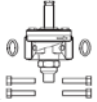
### Description of ICF function modules

ICFS	Motor valve module	ICM	Motor valve module
ICFR	Manual regulating valve module	ICFB	Blank top cover
ICFF	Filter (strainer) module	ICFA	Electronic expansion valve module (for ICF 20 only)
ICFE	Solenoid valve module	ICFE20H	Solenoid valve module (for ICF 20 only)
ICFC	Check valve module	ICFO	Manual opening module
ICFN	Stop/check valve module	ICFW	Welding module (for ICF 25-40 only)

# SOLENOID VALVES (coils on the next page)



## EVRA/T - Flanged Solenoid Valves (excludes coils & flanges but includes flange gaskets)

STRAIGHT		42 bar and -40 to 105 °C (130 °C short term)		
Code	Type	Size	Approx Weight	\$
032F3050	EVRA 3 W/O MANUAL LIFT <sup>1)</sup>	6	0.84	
032F6214	EVRA/T 10 MANUAL OPENING <sup>1)</sup>	10	1.54	
032F6216	EVRA/T 15 MANUAL OPENING <sup>1)</sup>	15	1.52	
032F6219	EVRA/T 20 MANUAL OPENING <sup>1)</sup>	20	2.44	
032F6225	EVRA 25 MANUAL OPENING	25	2.82	
042H1126	EVRA 32 DIRECT WELD CW flanges <sup>2)</sup>	32	4.42	
042H1128	EVRA 40 DIRECT WELD CW flanges <sup>2)</sup>	40	4.37	

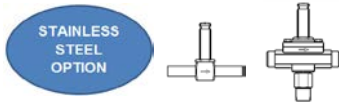
\*\*\* Excluding coil and flanges but includes flange gaskets

<sup>1)</sup> No pressure drop required for opening of valve as EVRA3 is Direct and the EVRA/T's are assisted lift


<sup>2)</sup> With cam operation manual opening

- EVRA32 and 40 current version complete new valve will not fit in approx. 2001 and before EVRA32 and 40 flanges  
EVRA32/40 changed to M10 bolts from M8

## EVRS/T - Stainless Steel DIN Butt Weld (excludes coils & flanges not required)

STRAIGHT		50 bar and -40 to 105 °C		
Code	Type	Size	Approx Weight	\$
032F3080	EVRS 3 VALVE WELD CON. 3/8 IN	10	0.30	
032F3083	EVRS/T 10 VALVE WELD CON. 1/2 IN	15	1.14	
032F3085	EVRS/T 15 VALVE WELD CON. 3/4IN	20	1.15	
032F5438	EVRS/T 20 VALVE WELD CON. 1 IN	25	1.85	

## ICF EVRA/T - Flanged Strainer & Solenoid Valve combination


STRAIGHT		42 bar and -40 to 105 °C		
Code	Type	Size	Approx Weight	\$
027L4517	ICF 15 EVRA/T <sup>1)</sup> assisted servo	15		
027L4518	ICF 20 EVRA/T <sup>1)</sup> assisted servo	20		
027L4519	ICF 20 EVRA/T-H <sup>2)</sup> servo only	20		

- The ICF EVRA/T drop-in valves matches 2 existing flange connections:

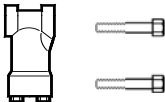
<sup>1)</sup> ICF 15 EVRA/T fits directly into the EVRA/T 10/15 + FA flange arrangement

<sup>2)</sup> ICF 20 EVRA/T fits directly into the EVRA/T 20/25 + FA flange arrangement

## EVRA/T - Welding Flanges (flanges only, excludes gaskets)


Straight				
Code	Type	Size	Approx Weight	\$
027N1112	EVRA(T) 3-15 FLANGES 3/8"	10	0.52	
027N1115	EVRA(T) 3-15 FLANGES 1/2"	15	0.52	
027N1120	EVRA(T) 3-15 FLANGES 3/4"	20	0.48	
027N1220	EVRA(T) 20-25 FLANGES 3/4"	20	0.89	
027N1225	EVRA(T) 20-25 FLANGES 1"	25	0.89	
027N1230	EVRA(T) 20-25 FLANGES 1 1/4"	32	0.90	

## FA - Strainers Direct Mounting (includes longer bolts)

Straight		28 bar and -50 to 140 °C		
Code	Type	Size	Approx Weight	\$
006-0043	FA 15 STRAINER FOR EVRA 3	6	1.37	
006-1012	FA 15 STRAINER FOR EVRA(T) 10-15	10-15	1.18	
006-1013	FA 20 STRAINER FOR EVRA(T) 20-25	20-25	1.87	

Note: 150u filter insert is included

**EVM's, Water Valves and Coils****EV220 - Water and Oil Valves**

STRAIGHT				
Code	Type	Size BSP	Approx Weight	\$
032U7115	EV220B 15B WBD	1/2"	0.68	
032U7116	EV220B 15B OL	1/2"	0.69	
032U7120	EV220B 20B WBD	3/4"	0.86	
032U7121	EV220B 20B OL	3/4"	0.87	
032U7125	EV220B 25B WBD	1"	1.33	
032U7126	EV220B 25B OL	1"	1.34	
032U7132	EV220B 32B WBD	1 1/4"	1.92	
032U7133	EV220B 32B OL	1 1/4"		
032U7140	EV220B 40B WBD	1 1/2"	2.99	
032U7141	EV220B 40B OL	1 1/2"	3.00	
032U7150	EV220B 50B WBD	2"	4.68	
032U7151	EV220B 50B OL	2"	4.75	


WBD suitable for water (-30 to 120 °C) and steam (steam max. +140° C / 4 bar).

OL suitable for oil and air (0 to 100 °C). For water at max. +60 °C

**EVRA, EVM and EV220 - Coils**

				
Code	Type	Power	Approx Weight	\$
018F6702	COIL 240 VAC TERMINAL BOX	10 WATT	0.31	
018F6710	COIL 115 VAC TERMINAL BOX	10 WATT	0.31	
018F6707	COIL 24 VAC TERMINAL BOX	10 WATT	0.29	
018Z6591	COIL 240 VAC EX zone 2	10WATT		
018F6802	COIL 240 VAC TERMINAL BOX	12 WATT	0.49	
018F6807	COIL 24 VAC TERMINAL BOX	12 WATT	0.49	
018F6857	COIL 24 VDC TERMINAL BOX	20 WATT	0.49	
027B1120	EVM (NC)		0.25	
027B1130	EVM (NO) use 12W coil		0.23	
027B112233	EVM (NC) WITH COIL 240V 10 WATT	10 WATT	0.55	

**ICS - Complete Control Valves (ANSI Butt Weld)****1 PILOT**

SOC Weld - will replace ANSI ICS up to 65DN when no longer in stock.		52 bar and -60 to 120 °C	ICV Flexline™ - Control valves	
Code	Type (weld)	Size	Approx Weight	\$
027H2140	ICS1 25-5 MAIN VALVE 3/4" SOC	20	3.60	
NA	NA (may be available in components or ANSI)			
027H2142	ICS1 25-15 MAIN VALVE 3/4" SOC	20	5.00	
027H2143	ICS1 25-20 MAIN VALVE 3/4" SOC	20	3.59	
027H2062	ICS1 25-25 MAIN VALVE 1" SOC	25	3.83	
NA	NA (may be available in components or ANSI)	32		
027H4022	ICS1 40 MAIN VALVE 1.1/2" SOC	40	7.10	
027H5022	ICS1 50 MAIN VALVE 2" SOC	50	10.63	
027H6023	ICS1 65 MAIN VALVE 2.1/2" SOC	65	15.12	

**3 PILOTS (comes with 1 x 027F1046 blanking plug & cap)**

Code	Type (weld)	Size	Approx Weight	\$
027H2145	ICS3 25-5 MAIN VALVE 3/4" SOC	20	4.14	
027H2146	ICS3 25-10 MAIN VALVE 3/4" SOC	20	4.13	
NA	NA (may be available in components or ANSI)	20		
027H2148	ICS3 25-20 MAIN VALVE 3/4" SOC	20	4.15	
027H2112	ICS3 25-25 MAIN VALVE 1" SOC	25	4.32	
027H3032	ICS3 32 MAIN VALVE 1.1/4" SOC	32	5.72	
027H4032	ICS3 40 MAIN VALVE 1.1/2" SOC	40	7.36	
027H5032	ICS3 50 MAIN VALVE 2" SOC	50	10.90	
027H6033	ICS3 65 MAIN VALVE 2.1/2" SOC	65	15.89	





## ICS - Complete Control Valves

### 1 PILOT

	Butt Weld ANSI - ANSI up to 65DN will be phased out of stock will automatically be replaced by SOC weld	52 bar and -60 to 120 °C	ICV Flexline™ – Control valves	
Code	Type (weld)	Size	Approx Weight	\$
027H2029	ICS1 25-5 MAIN VALVE 3/4"	20	3.41	
027H2039	ICS1 25-10 MAIN VALVE 3/4"	20	3.40	
027H2049	ICS1 25-15 MAIN VALVE 3/4"	20	3.40	
027H2059	ICS1 25-20 MAIN VALVE 3/4"	20	3.40	
027H2061	ICS1 25-25 MAIN VALVE 1"	25	3.41	
027H3021	ICS1 32 MAIN VALVE 1 1/4"	32	5.01	
027H4021	ICS1 40 MAIN VALVE 1 1/2"	40	6.32	
027H5021	ICS1 50 MAIN VALVE 2"	50	9.76	
027H6021	ICS1 65 MAIN VALVE 2 1/2"	65	15.12	
027H8021	ICS1 80 MAIN VALVE 3"	80	15.76	



### 3 PILOTS (comes with 1 x 027F1046 blanking plug & cap)

Code	Type (weld)	Size	Approx Weight	\$
027H2079	ICS3 25-5 MAIN VALVE 3/4"	20	3.94	
027H2089	ICS3 25-10 MAIN VALVE 3/4"	20	3.96	
027H2099	ICS3 25-15 MAIN VALVE 3/4"	20	3.93	
027H2109	ICS3 25-20 MAIN VALVE 3/4"	20	3.88	
027H2111	ICS3 25-25 MAIN VALVE 1"	25	3.98	
027H3031	ICS3 32 MAIN VALVE 1 1/4"	32	5.48	
027H4031	ICS3 40 MAIN VALVE 1 1/2"	40	6.72	
027H5031	ICS3 50 MAIN VALVE 2"	50	10.15	
027H6031	ICS3 65 MAIN VALVE 2 1/2"	65	15.46	
027H8031	ICS3 80 MAIN VALVE 3"	80	15.96	
027H7122	ICS3 100 MAIN VALVE 4"	100	52.60	
027H7142	ICS3 125 MAIN VALVE 5"	125	85.10	
027H7162	ICS3 150 MAIN VALVE 6"	150	128.00	

## ICS - Complete Control Valves (Solder version - steel valve end to fit copper tube)

### 1 PILOT

	Solder	52 bar and -60 to 120 °C	ICV Flexline™ – Control valves	
Code	Type (solder)	Size	Approx Weight	\$
027H2025	ICS1 25-5 MAIN VALVE 7/8 SA	7/8	3.45	
027H2035	ICS1 25-10 MAIN VALVE 7/8 SA	7/8	5.00	
027H2045	ICS1 25-15 MAIN VALVE 7/8 SA	7/8	3.38	
027H2055	ICS1 25-20 MAIN VALVE 7/8 SA	7/8	3.39	
027H2066	ICS1 25-25 MAIN VALVE 1 1/8 SA	1 1/8	3.44	
027H3023	ICS1 32 MAIN VALVE 1 3/8 SA	1 3/8	5.34	
027H4024	ICS1 40 MAIN VALVE 1-5/8 SA	1 5/8	6.98	
027H5023	ICS1 50 MAIN VALVE 2 1/8 SA	2 1/8	9.79	
027H6025	ICS1 65 MAIN VALVE 2-5/8 SA	2 5/8	15.50	



### 3 PILOTS (comes with 1 x 027F1046 blanking plug & cap)

Code	Type (solder)	Size	Approx Weight	\$
027H2075	ICS3 25-5 MAIN VALVE 7/8 SA	7/8	3.90	
027H2085	ICS3 25-10 MAIN VALVE 7/8 SA	7/8	3.91	
027H2095	ICS3 25-15 MAIN VALVE 7/8 SA	7/8	3.93	
027H2105	ICS3 25-20 MAIN VALVE 7/8 SA	7/8	4.03	
027H2116	ICS3 25-25 MAIN VALVE 1 1/8 SA	1 1/8	4.20	
027H3033	ICS3 32 MAIN VALVE 1 3/8 SA	1 3/8	5.85	
027H4034	ICS3 40 MAIN VALVE 1-5/8 SA	1 5/8	7.40	
027H5033	ICS3 50 MAIN VALVE 2 1/8 SA	2 1/8	10.24	
027H6035	ICS3 65 MAIN VALVE 2-5/8 SA	2 5/8	15.61	

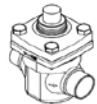
**Note:** PM and ICS capacities are not like for like in all sizes.  
Please refer to tech data or Kv values at rear of this document.  
ICS 25-5 to 25-25 have the same ICV body with different capacity insert modules+


\*\*\* Pilots and accessories for ICS on page I21

# CONTROL VALVES



## ICM - Complete Valves without Motor

STRAIGHT	Butt Weld ANSI - ANSI up to 65DN will be phased out & when out of stock will automatically be replaced by SOC weld.	52 bar and -60 to 120 °C	ICV Flexline™ – Control valves 	
Code	Type	Size	Approx Weight	\$
027H1186	ICM 20-A33 (insert only available) <sup>1)</sup>		1.28	
027H1194	ICM 20-B66 (insert only available) <sup>1)</sup>		1.31	
027H1148	ICV 20 3/4" ANSI Valve housing (body only) <sup>1)</sup>	20	0.65	
027H1035	ICM 20-A WELD 3/4"	20	1.91	
027H1036	ICM 20-B WELD 3/4"	20	1.92	
027H1025	ICM 20-C WELD 1"	25	1.93	
027H2002	ICM 25-A WELD 1"	25	3.25	
027H2003	ICM 25-B WELD 1"	25	3.23	
027H3002	ICM 32-A WELD 1 1/4"	32	4.99	
027H3003	ICM 32-B WELD 1 1/4"	32	7.50	
027H4002	ICM 40-A WELD 1 1/2"	40	6.48	
027H4003	ICM 40-B WELD 1 1/2"	40	6.43	
027H5002	ICM 50-A WELD 2"	50	9.84	
027H5003	ICM 50-B WELD 2"	50	9.75	
027H6012	ICM 65-A WELD 2 1/2"	65	15.18	
027H6003	ICM 65-B WELD 2 1/2"	65	15.56	
027H7131	ICM 100 WELD 4"	100	52.20	
027H7151	ICM 125 WELD 5"	125	79.80	
027H7171	ICM 150 WELD 6"	150	126.80	

STRAIGHT	SOC Weld - will replace ANSI up to 65DN when no longer in stock or prior on special request & extended lead times	52 bar and -60 to 120 °C	ICV Flexline™ – Control valves 	
Code	Type	Size	Approx Weight	\$
027H1186	ICM 20-A33 (insert only available) <sup>1)</sup>		1.28	
027H1194	ICM 20-B66 (insert only available) <sup>1)</sup>		1.31	
027H1151	ICV 20 3/4" SOC Valve housing (body only) <sup>1)</sup>	20	0.65	
027H1040	ICM 20-A WELD 3/4" SOC	20	1.95	
027H1041	ICM 20-B WELD 3/4" SOC	20	1.91	
NA	NA (may be available in components or ANSI)	25		
027H2004	ICM 25-A WELD 1" SOC	25	3.58	
027H2005	ICM 25-B WELD 1" SOC	25	4.02	
027H3004	ICM 32-A WELD 1 1/4" SOC	32	5.06	
027H3005	ICM 32-B WELD 1 1/4" SOC	32	5.10	
027H4004	ICM 40-A WELD 1 1/2" SOC	40	6.97	
027H4005	ICM 40-B WELD 1 1/2" SOC	40	6.86	
027H5004	ICM 50-A WELD 2" SOC	50	10.77	
027H5005	ICM 50-B WELD 2" SOC	50	10.83	
NA	NA (may be available in components or ANSI)	65		
027H6005	ICM 65-B WELD 2 1/2" SOC	65	16.36	

**Note:** All ICM20's and ICM25 to ICM65 "A" versions only are suitable for Expansion applications.

<sup>1)</sup> Purchase separate 3/4" ICV body 027H1148 to complete ICM

ICV 65 Body is code 027H6123

## ICM - Accessories

Code	Type	Approx Weight	\$
027H9075	ICAD 600A ACTUATOR FOR ICM 20-32 <sup>1)</sup>	1.28	
027H9077	ICAD 1200A ACTUATOR FOR ICM 40-150 <sup>1)</sup> (with encoder)	1.89	
027H1209	ICAD 600 HEATING ELEMENT (only for gen one ICAD)	0.23	
027H1219	ICAD 900 HEATING ELEMENT (only for gen one ICAD)	0.27	
027H0180	ICM 20-32 MULTI FUNCTION TOOL	0.16	
027H0181	ICM 40-150 MULTI FUNCTION TOOL	0.25	
027H0182	ICM-UPS BACKUP POWER SUPPLY	1.92	
027H0431	PROTECTIVE CAP FOR GEN 2 ICAD's (after 2009)	0.14	
027H0430	Connector set, ICAD 600/900/1200 (connectors only)	0.06	
027H0426	Cable set 1.5 m, ICAD 600/900/1200 (including connectors)	0.17	
027H0435	Cable set 15 m, ICAD 600/900/1200 (including connectors)	1.34	

<sup>1)</sup> Includes 1.5m cables plus fittings

# CONTROL VALVES

**PM's valves were discontinued late 2013 (PM-ICV Service Only Replacement)**



## PM-ICV Replacement Kits - Flanged Control Valves

(PM valve range, spare parts see page I47)

### PM1 - Service Replacement Kits

Code	Type	Size	Approx Weight	\$
PM-ICS1-5	PM-ICS1-5 FLANGED VALVE KIT	20		
PM-ICS1-10	PM-ICS1-10 FLANGED VALVE KIT	20		
PM-ICS1-15	PM-ICS1-15 FLANGED VALVE KIT	20		
PM-ICS1-20	PM-ICS1-20 FLANGED VALVE KIT	20		
PM-ICS1-25	PM-ICS1-25 FLANGED VALVE KIT	25		
PM-ICS1-32	PM-ICS1-32 FLANGED VALVE KIT	32		
PM-ICS1-40	PM-ICS1-40 FLANGED VALVE KIT	40		
PM-ICS1-50	PM-ICS1-50 FLANGED VALVE KIT	50		
PM-ICS1-65	PM-ICS1-65 FLANGED VALVE KIT	65		

### PM3 - Service Replacement Kits

PM-ICS3-5	PM-ICS3-5 FLANGED VALVE KIT	20		
PM-ICS3-10	PM-ICS3-10 FLANGED VALVE KIT	20		
PM-ICS3-15	PM-ICS3-15 FLANGED VALVE KIT	20		
PM-ICS3-20	PM-ICS3-20 FLANGED VALVE KIT	20		
PM-ICS3-25	PM-ICS3-25 FLANGED VALVE KIT	25		
PM-ICS3-32	PM-ICS3-32 FLANGED VALVE KIT	32		
PM-ICS3-40	PM-ICS3-40 FLANGED VALVE KIT	40		
PM-ICS3-50	PM-ICS3-50 FLANGED VALVE KIT	50		
PM-ICS3-65	PM-ICS3-65 FLANGED VALVE KIT	65		

### MRV & MEV - PM-ICM Replacement Kits

PM-ICM25-A	PM-ICM25-A FLANGED VALVE KIT	25		
PM-ICM25-B	PM-ICM25-B FLANGED VALVE KIT	25		
PM-ICM32-A	PM-ICM32-A FLANGED VALVE KIT	32		
PM-ICM32-B	PM-ICM32-B FLANGED VALVE KIT	32		
PM-ICM40-A	PM-ICM40-A FLANGED VALVE KIT	40		
PM-ICM40-B	PM-ICM40-B FLANGED VALVE KIT	40		
PM-ICM50-A	PM-ICM50-A FLANGED VALVE KIT	50		
PM-ICM50-B	PM-ICM50-B FLANGED VALVE KIT	50		
PM-ICM65-A	PM-ICM65-A FLANGED VALVE KIT	65		
PM-ICM65-B	PM-ICM65-B FLANGED VALVE KIT	65		

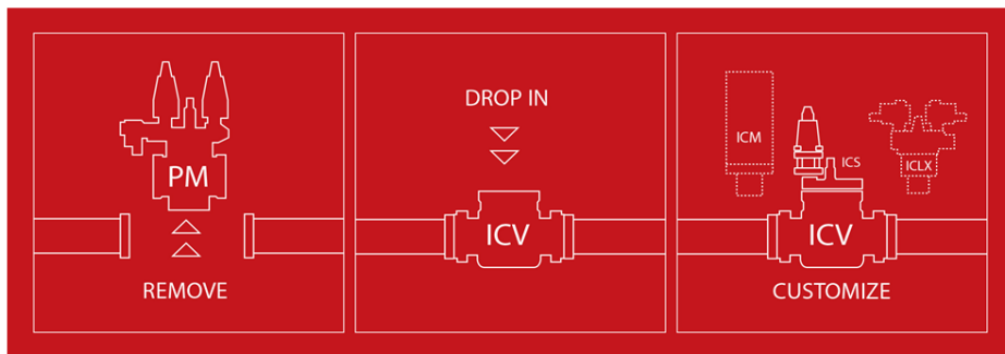
### PMLX - Service Valve Replacement Kits

PM-ICLX32	PM-ICLX32 FLANGED VALVE KIT	32		
PM-ICLX40	PM-ICLX40 FLANGED VALVE KIT	40		
PM-ICLX50	PM-ICLX50 FLANGED VALVE KIT	50		
PM-ICLX65	PM-ICLX65 FLANGED VALVE KIT	65		

PM & ICS capacities are not like for like in all sizes.  
Please refer to tech data or Kv values at the rear of this document.

**Note:** The above valves will be delivered in parts

- PM-ICS in 3 parts (body, module & cover)
- PM-ICM in 2 parts (body & top part)
- PM-ICLX in 2 parts (body & top part)
- ICAD to be ordered separately for PM-ICM
- Pilot valves for PM-ICS not included



**CONTROL VALVES****PM - Butt Weld Flanges**

Code	Type	Size	Approx Weight	\$
027N1220	PM 5-25 WELD FLANGES 3/4"	20	0.89	
027N1225	PM 5-25 WELD FLANGES 1"	25	0.89	
027N1230	PM 5-25 WELD FLANGES 1 1/4"	32	0.90	
027N2332	PM 32 WELD FLANGES 1 1/4"	32	1.49	
027N2340	PM 32 WELD FLANGES 1 1/2"	40	1.56	
027N2440	PM 40 WELD FLANGES 1 1/2"	40	1.98	
027N2450	PM 40 WELD FLANGES 2"	50	2.03	
027N2550	PM 50 WELD FLANGES 2"	50	2.94	
027N2565	PM 50 WELD FLANGES 2 1/2"	65	2.99	
027N2665	PM 65 WELD FLANGES 2 1/2"	65	3.19	
027N2680	PM 65 WELD FLANGES 3"	80	3.47	
027F2123	PM 80 WELD FLANGES 4"	100	13.18	
027F2124	PM 100 WELD FLANGES 5"	125	17.50	
027F2125	PM 125 WELD FLANGES 6"	150	24.22	

**Pilots and Accessories - PM and ICS**

Code	Type	Approx Weight	\$
027B1100	CVP (LP) 0-7 BAR (17 bar MWP)	0.44	
027B1101	CVP (LP) -0.66-2 BAR (17 bar MWP)	0.45	
027B1164	CVP (HP) -0.66-7 BAR (28 bar MWP)	1.78	
027B1160	CVP (HP) 4-22 BAR (28 bar MWP)	1.78	
027B1161	CVP (HP) 4-28 BAR (28 bar MWP)	1.77	
027B1261	CVP (HP) 4-28BAR (40 bar MWP)		
027B0090	CVP-XP 10-40 BAR (52 bar MWP)		
027B0080	CVP-XP 25-52 BAR (52 bar MWP)	2.41	
027B1120	EVM (NC) (65 bar MWP)	0.25	
027B112233	EVM (NC) WITH COIL 240V 10 WATT (65 bar MWP)	0.55	
027B1130	EVM (NO) (use 12W coil) (52 bar MWP)	0.23	
018F6702	COIL 240 VAC TERMINAL BOX 10 WATT	0.31	
018F6710	COIL 115 VAC TERMINAL BOX 10 WATT	0.31	
018F6707	COIL 24 VAC TERMINAL BOX 10 WATT	0.29	
018Z6591	COIL 240 VAC EX zone 2 10WATT		
018F6802	COIL 240 VAC TERMINAL BOX 12 WATT	0.49	
018F6807	COIL 24 VAC TERMINAL BOX 12 WATT	0.49	
018F6857	COIL 24 VDC T-BOX TYPE 1 20 WATT	0.49	
018F6887	COIL 24 VDC T-BOX TYPE 2 (for EVR-A-T-S 20>22)	0.50	
018F0091	PERMANENT MAGNET COIL	0.13	
027B1080	CVC -0.5-9 BAR MWP 17 BAR	0.86	
027B0087	CVC 4 to 28 BAR MWP 28 BAR	2.42	
027B1102	CVPP 0-7 BAR	0.52	
027B1162	CVPP (HP) 0-7 BAR	1.75	
027B1268	CVPP (HP) 4-22 BAR	1.79	
027B1140	CVQ PILOT 0-6 BAR	0.54	
027B1141	CVQ PILOT 1.7-8 BAR	0.54	
027F1046	BLANKING PLUG	0.14	
027F1047	CVH HOUSING WELD 3/8"	0.33	
027F1090	CVH HOUSING WELD 1/2"	0.34	
148B3746	SNV-ST 1/4 FPT X 1/4 MPT (for PM or ICS gauge port)	0.39	
027F1048	PILOT (HG) CONNECTION PM 5-65, ICS25-80 (cw 1mm damp orif)	0.32	
027F1049	PILOT (HG) CONNECTION PM 80-125, ICS100-150 (cw 1.8mm damp orif)	0.32	
027B2035	PRESSURE GAUGE CONNECTION	0.13	
027B2062	ICS/PM Pressure Gauge Adaptor (G1/4-1/4NPT)	0.10	
027F0664	EVM DAMPENING ORIFICE 1mm	0.04	
027F0666	Pilot Seal Kit	0.03	



~ Please note! In hot gas relief systems Danfoss recommends the use of **CVP-HP** due to the robust design suitable for pulsations and temperature fluctuations. CVP-LP is not recommended.

# GAS POWERED SUCTION VALVES



## ICLX - Gas Powered Stop Valves - Two Step

<b>STRAIGHT</b>	Butt Weld ANSI - ANSI up to 65DN will be phased out & when out of stock will automatically be replaced by SOC weld	<b>52 bar and -60 to 120 °C</b>		
Code	Type	Size	Approx Weight	\$
027H3041	ICLX 32 ANSI	32	4.99	
027H4041	ICLX 40 ANSI	40	6.48	
027H5041	ICLX 50 ANSI	50	9.84	
027H6041	ICLX 65 ANSI	65	15.18	
027H8042	ICLX 80 ANSI (same Kv as the ICLX65)	80	15.76	
027H7148	ICLX 100 ANSI	100	52.20	
027H7158	ICLX 125 ANSI	125	79.80	
027H7168	ICLX 150 ANSI	150	126.80	

<b>STRAIGHT</b>	SOC Weld - will replace ANSI ICLX up to 65DN when no longer in stock.	<b>52 bar and -60 to 120 °C</b>		
Code	Type	Size	Approx Weight	\$
027H3042	ICLX 32 1.1/4" SOC	32	5.06	
027H4042	ICLX 40 1.1/2" SOC	40	6.97	
027H5042	ICLX 50 2" SOC	50	10.77	
027H6042	ICLX 65 2.1/2" SOC	65	16.36	

\*\*\* Excluding coils (1 X 10W and 1 X 12W required)

\*\*\* Including NO and NC EVM's plus External connector

## GPLX - Gas Powered Stop Valves - Two Step

### ANGLE

<b>ANGLE</b>		<b>40 bar and -60 to 150 °C</b>		
Code	Type	Size	Approx Weight	\$
148G3155	GPLX 80 WELD 3"	80	14.78	
148G3156	GPLX 100 WELD 4"	100	29.40	
148G3157	GPLX 125 WELD 5"	125	40.29	
148G3158	GPLX 150 WELD 6"	150	55.00	
2464+608	FIL 6 R 1/4" (optional pilot filter)		0.20	

\*\*\* Excluding coils (1 X 10W and 1 X 12W required)

## ICLX and GPLX - Coils

Code	Type	Power	Approx Weight	\$
018F6702	COIL 240 VAC TERMINAL BOX	10 WATT	0.31	
018F6710	COIL 115 VAC TERMINAL BOX	10 WATT	0.31	
018F6707	COIL 24 VAC TERMINAL BOX	10 WATT	0.29	
018Z6591	COIL 240 VAC EX zone 2	10WATT		
018F6802	COIL 240 VAC TERMINAL BOX	12 WATT	0.49	
018F6807	COIL 24 VAC TERMINAL BOX	12 WATT	0.49	
018F6857	COIL 24 VDC TERMINAL BOX	20 WATT	0.49	

# GAS POWERED SUCTION VALVES

*PM's valves were discontinued late 2013*

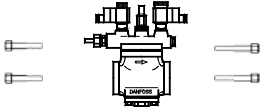
(PM-



*ICLX Service Only Replacement)*

## PMLX - Gas Powered Stop Valves - Two Step

(PM valve range, spare parts see page 147)

STRAIGHT		28 bar and -60 to 120 °C		
Code	Type	Size	Approx Weight	\$
PM-ICLX32	PM-ICLX 32 FLANGED VALVE KIT	32	10.57	
PM-ICLX40	PM-ICLX 40 FLANGED VALVE KIT	40	12.60	
PM-ICLX50	PM-ICLX 50 FLANGED VALVE KIT	50	19.08	
PM-ICLX65	PM-ICLX 65 FLANGED VALVE KIT	65	26.28	
027F2257	PMLX 80 EXCL PILOT VALVES	80	79.00	
027F2258	PMLX 100 EXCL PILOT VALVES	100	106.50	
027F2259	PMLX 125 EXCL PILOT VALVES	125	196.50	
027B1120	EVM (NC)		0.25	
027B1130	EVM (NO)		0.23	

\*\*\* Excluding coils and flanges

## PMLX - Welding Flanges

Code	Type	Size	Approx Weight	\$
027N2332	PMLX 32 WELD FLANGES 1 1/4"	32	1.49	
027N2340	PMLX 32 WELD FLANGES 1 1/2"	40	1.56	
027N2440	PMLX 40 WELD FLANGES 1 1/2"	40	1.98	
027N2450	PMLX 40 WELD FLANGES 2"	50	2.03	
027N2550	PMLX 50 WELD FLANGES 2"	50	2.94	
027N2565	PMLX 50 WELD FLANGES 2 1/2"	65	2.99	
027N2665	PMLX 65 WELD FLANGES 2 1/2"	65	3.19	
027N2680	PMLX 65 WELD FLANGES 3"	80	3.47	
027F2123	PMLX 80 WELD FLANGES 4"	100	13.18	
027F2124	PMLX 100 WELD FLANGES 5"	125	17.50	
027F2125	PMLX 125 WELD FLANGES 6"	150	24.22	

## PMLX - Coils

Code	Type	Power	Approx Weight	\$
018F6702	COIL 240 VAC TERMINAL BOX	10 WATT	0.31	
018F6707	COIL 24 VAC TERMINAL BOX	10 WATT	0.29	
018F6802	COIL 240 VAC TERMINAL BOX	12 WATT	0.49	
018F6807	COIL 24 VAC TERMINAL BOX	12 WATT	0.49	

\*\*\* Excluding coils (1 X 10W and 1 X 12W required)

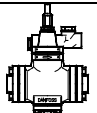


# LIQUID LEVEL CONTROL



## PMFL - Flanged Main Valves

(PM valve range to be phased out in late 2013 but PMFL and PMLH will continue)

STRAIGHT		28 bar and -60 to 120 °C		
Code	Type	Size	Approx Weight	\$
027F3054	PMFL 80-1 MAIN VALVE <sup>1)</sup>	20-32	6.78	
027F3055	PMFL 80-2 MAIN VALVE		6.76	
027F3056	PMFL 80-3 MAIN VALVE		6.78	
027F3057	PMFL 80-4 MAIN VALVE		6.99	
027F3058	PMFL 80-5 MAIN VALVE <sup>1)</sup>		7.03	
027F3059	PMFL 80-6 MAIN VALVE		7.03	
027F3060	PMFL 80-7 MAIN VALVE		7.00	
027F3061	PMFL 125 MAIN VALVE	32-40	10.10	
027F3062	PMFL 200 MAIN VALVE	40-50	12.17	
027F3063	PMFL 300 MAIN VALVE	50-65		

\*\*\* Excluding flanges

<sup>1)</sup> Best availability for urgent needs

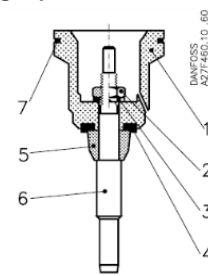
\*\* If other sizes are required urgently purchase item <sup>1)</sup> and reuse cone from valve being replaced in new valve

\*\*\* PMFL 80-1 to 80-3 have the same orifice so cone (part 5) can be interchanged

\*\*\* PMFL 80-4 to 80-7 have the same orifice so cone (part 5) can be interchanged

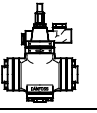
The cone (part 5) determines the valves capacity.

After inspection this cone can be installed in a new PMFL80 to achieve the required valve capacity.



PMFL Piston Assembly

## PMFH - Flanged Main Valves

STRAIGHT		28 bar and -60 to 120 °C		
Code	Type	Size	Approx Weight	\$
027F3065	PMFH 80-2 MAIN VALVE	20-32	6.80	
027F3066	PMFH 80-3 MAIN VALVE			
027F3067	PMFH 80-4 MAIN VALVE		7.00	
027F3068	PMFH 80-5 MAIN VALVE		6.78	
027F3069	PMFH 80-6 MAIN VALVE <sup>1)</sup>		6.73	
027F3070	PMFH 80-7 MAIN VALVE		6.86	
027F3071	PMFH 125 MAIN VALVE		32-40	10.25
027F3072	PMFH 200 MAIN VALVE	40-50	12.62	
027F3073	PMFH 300 MAIN VALVE	50-65	18.58	
027F3074	PMFH 500 MAIN VALVE	65-80		

\*\*\* Excluding flanges

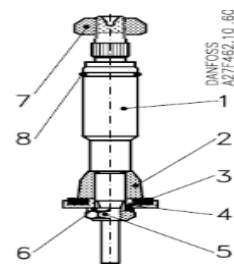
<sup>1)</sup> Best availability for urgent needs

\*\* If other sizes are required urgently purchase item <sup>1)</sup> and reuse cone from valve being replaced in new valve

\*\*\* For PMFH 80-2 to 80-7 part 2

determines the valves capacity.

After inspection this cone can be installed in a new PMFH80 to achieve the required valve capacity.



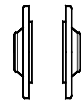
PMFH Piston Assembly

# LIQUID LEVEL CONTROL



## PMFL - Welding Flanges

(PM valve range to be phased out in late 2013, spares parts will continue)



Code	Type	Size	Approx Weight	\$
027N1220	PMFL 80 WELD FLANGES 3/4"	20	0.89	
027N1225	PMFL 80 WELD FLANGES 1"	25	0.89	
027N1230	PMFL 80 WELD FLANGES 1 1/4"	32	0.90	
027N2332	PMFL 125 WELD FLANGES 1 1/4"	32	1.49	
027N2340	PMFL 125 WELD FLANGES 1 1/2"	40	1.56	
027N2440	PMFL 200 WELD FLANGES 1 1/2"	40	1.98	
027N2450	PMFL 200 WELD FLANGES 2"	50	2.03	
027N2550	PMFL 300 WELD FLANGES 2"	50	2.94	
027N2565	PMFL 300 WELD FLANGES 2 1/2"	65	2.99	

\*\*\* PMFL, recommended to use SV4

## FLOATS & PMFL - Accessories

		SV Float 28 bar and -50 to 65 °C		
Code	Type		Approx Weight	\$
027B2021	SV 1 PILOT VALVE		7.02	
027B2023	SV 3 PILOT VALVE		7.58	
027B2024	SV 4 PILOT VALVE		25.91	
027B2025	SV 5 PILOT VALVE		22.45	
027B2026	SV 6 PILOT VALVE		25.75	
027B2014	SV 4 PILOT VALVE W/O HOUSING		10.11	
027B2015	SV 5 PILOT VALVE W/O HOUSING			
027B2016	SV 6 PILOT VALVE W/O HOUSING		8.92	
027B2054	SV1-3 DEFROST DRAIN FLOAT CONVERSION KIT		0.06	
027F0123	PMFL 80 WEAK SPRING		0.05	
027F0124	PMFL 125 WEAK SPRING		0.09	
027F0125	PMFL 200 WEAK SPRING		0.09	
027F0126	PMFL 300 WEAK SPRING		0.12	
027F0118	PMFL 80 STRONG SPRING		0.08	
027F0119	PMFL 125 STRONG SPRING		0.16	
027F0120	PMFL 200 STRONG SPRING		0.22	
027F0121	PMFL 300 STRONG SPRING		0.27	

\*\*\* PMFH, use SV1 & 3 only

## HIGH PRESSURE FLOAT



### HFI - High Pressure Float Valve

STRAIGHT		25 bar and -50 to 80 °C		
Code	Type	Size	Approx Weight	\$
148G3102	HFI 040 FD 100 (4" flange)	100	53.49	
148G3103	HFI 050 FD 100 (4" flange)	100	53.49	
148G3104	HFI 060 FD 100 (4" flange)	100	53.49	
148G3422	HFI 070 FD 100 (4" flange)	100	46.00	
148G3105	HFI 050 FD 150 (6" flange)	150	56.49	
148G3106	HFI 060 FD 150 (6" flange)	150	56.49	
148G3423	HFI 070 FD 150 (6" flange)	150	51.00	
148G3097	HFI 040 A 100 (4" butt weld)	100	47.49	
148G3098	HFI 050 A 100 (4" butt weld)	100	47.49	
148G3099	HFI 060 A 100 (4" butt weld)	100	47.49	
148G3420	HFI 070 A 100 (4" butt weld)	100	38.00	
148G3101	HFI 060 A 150 (6" butt weld)	150	47.49	
148G3421	HFI 070 A 150 (6" Butt Weld)	150	40.00	

The Lead times may be improved to 4+ weeks compared with 8+ weeks by using consolidated air freight at a minimum charge of \$250.00 per item. These arrangements MUST be arranged when placing your order.

# ELECTRONIC CONTROLS



EKC - Electronic Controllers			
Code	Type	Approx Weight	\$
084B7067	EKC 347 LIQUID LEVEL CONTROL (ICM & AKVA)	0.32	
080G5000	EKC 347 LIQUID LEVEL CONTROL (ICM & AKVA with MODBUS)	0.19	
084B7060	EKC 361 TEMPERATURE CONTROL (ICM & CVQ)	0.32	
084B7076	EKC 366 INTERFACE (CVQ)	0.29	
084B7086	EKC 315A SUPERHEAT CONTROL (AKVA & ICM) <sup>1)</sup>	0.32	
084B7088	EKC 316A SUPERHEAT CONTROL (ETS & CCM) <sup>1)</sup>	0.32	
084B7251	EKC 319A DISCH TEMP CONTROL (AKVA)	0.32	
084B8520	EKC204 / AK-CC 210 (SYSTEM CONTROL, RS485 & MODBUS option)	0.22	
084B8528	EKC204 / AK-CC 250 (SYSTEM CONTROL with built in MODBUS)	0.22	
084B8521	EKC202A 240V ac (2 x SI, 2 x DO, 1 x DI)	0.20	
084B8523	EKC202C 240V ac (2 x SI, 4 x DO, 1 x DI)	0.21	
084N0003	AKS 11 SURFACE MOUNT 3.5M CABLE	0.08	
084N0036	AKS12 AIR SENSOR 1.5 M	0.05	
084N0039	AKS12 AIR SENSOR 3 M	0.11	
084N2007	AKS21A C/W SURFACE CLIP	0.11	
084N2040	AKS 120 THERMOWELL POCKET (nogland or gland nut)	0.14	
084N2016	AKS 21W IMMERSION SENSOR (with terminal box)	0.43	
084N2017	AKS 21W IMMERSION SENSOR (with gland)	0.29	

\*\*\* For additional pressure transmitters and temperature sensors, refer to page 37

<sup>1)</sup> Use in conjunction with AKS33 or AKS3000 and AKS21 or AKS11

## AKS4100/U and AKS 41 - Electronic Liquid Level Sensor

AKS4100 Replaces AKS41		AKS4100U Coaxial (Tube)	AKS4100 Cable version	
Code	Type	Length in mm	Approx Weight	\$
084H4501	AKS4100 LEVEL SENSOR G 1" BSP <sup>3)</sup>	800 - 5000	0.78	
084H4521	AKS4100U LEVEL SENSOR 3/4" MPT <sup>2) 3)</sup>	800 - 5000	2.80	
TBA	AKS 4100 LEVEL SENSOR COAX 1"BSP <sup>4)</sup>	280		
084H4510	AKS 4100 LEVEL SENSOR COAX 1"BSP <sup>4)</sup>	500	6.02	
084H4511	AKS 4100 LEVEL SENSOR COAX 1"BSP <sup>4)</sup>	800	0.78	
084H4512	AKS 4100 LEVEL SENSOR COAX 1"BSP <sup>4)</sup>	1000	2.50	
084H4513	AKS 4100 LEVEL SENSOR COAX 1"BSP <sup>4)</sup>	1200	2.00	
084H4514	AKS 4100 LEVEL SENSOR COAX 1"BSP <sup>4)</sup>	1500	2.50	
084H4515	AKS 4100 LEVEL SENSOR COAX 1"BSP <sup>4)</sup>	1700	0.78	
084H4516	AKS 4100 LEVEL SENSOR COAX 1"BSP <sup>4)</sup>	2200	2.90	
027F1010	AKS 41/4100 1" BUSH		0.14	
084H4547	AKS 4100/41 ALU GASKET (order in lots 10)		0.70	

\*\* Please order 1" bush for installing AKS4100 G 1" BSP version 084H4501

\*\* AKS4100 are a 2 wire loop powered device 24 V DC


\*\* AKS4100/4100U come with aluminium gasket

<sup>2)</sup> AKS4100U is 3/4" MPT and will replace the Hansen Level Probes

<sup>3)</sup> AKS4100 cable version must be fitted to a column and is not suitable for CO2

<sup>4)</sup> AKS4100 Coax version can be fitted direct into a vessel or column and is suitable for CO2 and other refrigerants

## AKS 38 - Float Switch

		28 bar and -50 to 65 °C		
Code	Type	Type	Approx Weight	\$
148H3204	AKS 38 FLOAT SWITCH WELD 1"		10.89	

\*\*\* Including flanges

# ELECTRONIC EXPANSION VALVES



**Note:** ICM valves can also be used as expansion valves

## AKVA - Injection Valves

STRAIGHT		42 bar and -50 to 60 °C			
Code	Type	Size	Approx Weight	\$	
068F3265	AKVA 10-5 WELD 3/8 X 1/2"	12	0.38		
068F3266	AKVA 10-6 WELD 3/8 X 1/2"	12	0.40		
068F3267	AKVA 10-7 WELD 1/2 X 3/4"	15	0.41		
068F3268	AKVA 10-8 WELD 1/2 X 3/4"	15	0.41		
068F5020	AKVA 15-1 W/O FLANGES	20-25	1.94		
068F5023	AKVA 15-2 W/O FLANGES <sup>1)</sup>	20-25	1.99		
068F5026	AKVA 15-3 W/O FLANGES	20-25	1.97		
068F5029	AKVA 15-4 W/O FLANGES	20-25	1.97		
042H2101	AKVA 20-1 WELD 1 1/4 X 1 1/4"	32	4.72		
042H2102	AKVA 20-2 WELD 1 1/4 X 1 1/4" <sup>1)</sup>	32	4.71		
042H2103	AKVA 20-3 WELD 1 1/4 X 1 1/4"	32	4.67		
042H2104	AKVA 20-4 WELD 1 1/2 X 1 1/2" <sup>1)</sup>	40	4.51		
042H2105	AKVA 20-5 WELD 2 X 2"	50	4.48		

<sup>1)</sup> AKV15-2, AKVA20-2 and AKVA20-4 will have the best availability.

If other sizes are required the faster delivery would be to purchase a 15-2, 20-2 or 20-4 and the piston kit for the valve capacity required (see spare parts at rear).

AKVA20's come complete with BUTT weld flanges

AKVA15's require flanges to be purchased separately

AKVA15 & 20 current version complete valve will not fit in approx. 2001 & before AKVA 15 & 20 flanges.

AKVA15 changed to M8 bolts from M6

AKVA20 changed to M10 bolts from M8

## AKVA - Accessories

Code	Type		Approx Weight	\$	
027N1220	AKVA 15 WELD FLANGES 3/4"		0.89		
027N1225	AKVA 15 WELD FLANGES 1"		0.89		
018F6901	COIL 24 VAC 20 W (all AKVA's)		0.61		
018F6802	COIL 240 VAC 12 W (all AKVA's except AKV20-4 & 5))		0.49		
018F6781	COIL 230 VDC 18 W (all AKVA's)		0.31		

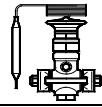
## CCM - Gas bypass & Expansion Valves for CO2 (CCMT available for transcritical and subcritical CO2)

STRAIGHT		90 bar and -40 to 40 °C			
Code	Type	Size	Approx Weight	\$	
027H7188	CCM 10 CO2 MP valve	1/2" W / 5/8" Sol	2.05		
027H7187	CCM 20 CO2 MP valve	3/4" W / 7/8" Sol	2.06		
027H7186	CCM 30 CO2 MP valve	1" W / 1 1/8" Sol	2.07		
027H7185	CCM 40 CO2 MP Valve	1" W / 1 1/8" Sol	2.05		
034G2200	ETS-CCM Cable 4 x 0.5 8m w M12 FM	8m	0.32		

## THERMOSTATIC EXPANSION VALVES



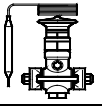
### TEA - Injection Valves (complete with weld flanges)

STRAIGHT		19 bar and -50 to 10 °C		
Code	Type	Size	Approx Weight	\$
068G6000	TEA 20-1 EXPANSION VALVE -50>0C	15	2.18	
068G6001	TEA 20-2 EXPANSION VALVE -50>0C	15	2.28	
068G6002	TEA 20-3 EXPANSION VALVE -50>0C	15	2.31	
068G6003	TEA 20-5 EXPANSION VALVE -50>0C	15	2.31	
068G6004	TEA 20-8 EXPANSION VALVE -50>0C <sup>1)</sup>	15	2.28	
068G6005	TEA 20-12 EXPANSION VALVE -50>0C	15	2.28	
068G6006	TEA 20-20 EXPANSION VALVE -50>0C	15	2.29	
068G6135	TEA 20-20 EXPANSION VALVE <b>-20&gt;30C</b> <sup>1)</sup>	15	2.36	
068G6007	TEA 85-33 EXPANSION VALVE -50>0C	20	3.22	
068G6008	TEA 85-55 EXPANSION VALVE -50>0C	20	3.19	
068G6009	TEA 85-85 EXPANSION VALVE -50>0C	20	3.19	

<sup>1)</sup> Best availability

\*\* If other sizes are required the best delivery would be to purchase item <sup>1)</sup> & orifice kit for the valve capacity required.

### TEAT - Injection Valves (complete with weld flanges)

STRAIGHT		20 bar		
Code	Type	Size	Approx Weight	\$
068G6125	TEAT 20-2 35-65 DEG C	15		
068G6062	TEAT 20-2 55-95 DEG C	15	2.10	
068G6065	TEAT 20-2 90-130 DEG C	15	2.46	
068G6126	TEAT 20-5 35-65 DEG C	15		
068G6061	TEAT 20-5 55-95 DEG C	15		
068G6127	TEAT 20-5 90-130 DEG C	15	2.47	
068G6128	TEAT 20-8 35-65 DEG C	15		
068G6063	TEAT 20-8 55-95 DEG C <sup>1)</sup>	15	2.48	
068G6066	TEAT 20-8 90-130 DEG C	15	2.46	
068G6068	TEAT 20-20 35-65 DEG C	15	2.47	
068G6064	TEAT 20-20 55-95 DEG C	15	2.47	
068G6067	TEAT 20-20 90-130 DEG C	15	2.10	
068G6129	TEAT 85-33 35-65 DEG C	20	3.36	
068G6070	TEAT 85-33 55-95 DEG C <sup>1)</sup>	20	3.37	
068G6072	TEAT 85-33 90-130 DEG C	20		
068G6130	TEAT 85-55 35-65 DEG C	20	3.36	
068G6073	TEAT 85-55 55-95 DEG C	20		
068G6131	TEAT 85-55 90-130 DEG C	20		
068G6069	TEAT 85-85 35-65 DEG C	20	3.00	
068G6071	TEAT 85-85 55-95 DEG C	20		
068G6132	TEAT 85-85 90-130 DEG C	20		

<sup>1)</sup> Best availability

\*\*\* If other sizes are required the best delivery would be to purchase item <sup>1)</sup> & orifice kit for the valve capacity required.

## EXPANSION VALVES



### TEVA - Liquid Level Control

TEVA's have been phased out

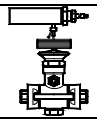
Parts program will need to be used for repairs

If a complete TEVA is required a complete TEA and TEVA element assembly is required

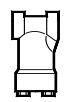
TEVA element spare part does not include the weld pocket or heater

\*\* Complete TEVA 20-xx = TEA 20-xx + TEVA element (068G3255) + TEVA heater (068G0037) + TEVA weld bush (068G0026)

\*\* Service replacement TEVA 20-xx = TEA 20-xx + TEVA element (068G3255) + TEVA heater (068G0037)

STRAIGHT		19 bar and -50 to 10 °C		
Code	Type	Size	Approx Weight	\$
068G6041	TEVA 20-2 LEVEL CONTROL	15		
068G6042	TEVA 20-3 LEVEL CONTROL	15		
068G6043	TEVA 20-5 LEVEL CONTROL	15		
068G6044	TEVA 20-8 LEVEL CONTROL	15		
068G6045	TEVA 20-12 LEVEL CONTROL	15		
068G6046	TEVA 20-20 LEVEL CONTROL	15		
068G6047	TEVA 85-33 LEVEL CONTROL	20		
068G6048	TEVA 85-55 LEVEL CONTROL	20		
068G6049	TEVA 85-85 LEVEL CONTROL	20		

### FA - Strainers for Direct Mounting

STRAIGHT		28 bar and -50 to 140 °C		
Code	Type	Size	Approx Weight	\$
006-0042	FA STRAINER FOR TEA 20	15	1.30	
006-0048	FA STRAINER FOR TEA 85	20	2.00	

### TEA / TEAT / TEVA - Orifices

Code	Type		Approx Weight	\$
068G2050	TEA/A ORIFICE ASSEMBLY 1 TR		0.09	
068G2051	TEA/T/A ORIFICE ASSEMBLY 2 TR		0.09	
068G2052	TEA/T/A ORIFICE ASSEMBLY 3 TR		0.08	
068G2053	TEA/T/A ORIFICE ASSEMBLY 5 TR		0.08	
068G2054	TEA/T/A ORIFICE ASSEMBLY 8 TR		0.08	
068G2055	TEA/T/A ORIFICE ASSEMBLY 12 TR		0.08	
068G2056	TEA/T/A ORIFICE ASSEMBLY 20 TR		0.08	
068G2057	TEA/T/A ORIFICE ASSEMBLY 33 TR		0.08	
068G2058	TEA/T/A ORIFICE ASSEMBLY 55 TR		0.08	
068G2059	TEA/T/A ORIFICE ASSEMBLY 85 TR		0.08	







**SAFETY VALVES**

Certified with standard set pressure and TÜV certificate

SFA15 - safety relief valves (Flow diameter=13mm)

ANGLE				
Code	Type		Approx Weight	\$
148F3310	SFA 15 T 310 SAFETY VALVE 10 BAR		1.93	
148F3311	SFA 15 T 311 SAFETY VALVE 11 BAR		1.93	
148F3312	SFA 15 T 312 SAFETY VALVE 12 BAR		1.93	
148F3313	SFA 15 T 313 SAFETY VALVE 13 BAR		1.93	
148F3314	SFA 15 T 314 SAFETY VALVE 14 BAR		1.93	
148F3315	SFA 15 T 315 SAFETY VALVE 15 BAR		1.93	
148F3316	SFA 15 T 316 SAFETY VALVE 16 BAR		1.93	
148F3317	SFA 15 T 317 SAFETY VALVE 17 BAR		1.93	
148F3318	SFA 15 T 318 SAFETY VALVE 18 BAR		1.93	
148F3319	SFA 15 T 319 SAFETY VALVE 19 BAR		1.93	
148F3320	SFA 15 T 320 SAFETY VALVE 20 BAR		1.93	
148F3321	SFA 15 T 321 SAFETY VALVE 21 BAR		1.93	
148F3322	SFA 15 T 322 SAFETY VALVE 22 BAR		1.93	
148F3323	SFA 15 T 323 SAFETY VALVE 23 BAR		1.93	
148F3324	SFA 15 T 324 SAFETY VALVE 24 BAR		1.93	
148F3325	SFA 15 T 325 SAFETY VALVE 25 BAR		1.93	
148F3326	SFA 15 T 326 SAFETY VALVE 26 BAR		1.93	
148F3327	SFA 15 T 327 SAFETY VALVE 27 BAR		1.93	
148F3328	SFA 15 T 328 SAFETY VALVE 28 BAR		1.93	
148F3329	SFA 15 T 329 SAFETY VALVE 29 BAR		1.93	
148F3330	SFA 15 T 330 SAFETY VALVE 30 BAR		1.93	
148F3331	SFA 15 T 331 SAFETY VALVE 31 BAR		1.93	
148F3332	SFA 15 T 332 SAFETY VALVE 32 BAR		1.93	
148F3333	SFA 15 T 333 SAFETY VALVE 33 BAR		1.93	
148F3334	SFA 15 T 334 SAFETY VALVE 34 BAR		1.93	
148F3335	SFA 15 T 335 SAFETY VALVE 35 BAR		1.93	
148F3336	SFA 15 T 336 SAFETY VALVE 36 BAR		1.93	
148F3337	SFA 15 T 337 SAFETY VALVE 37 BAR		1.93	
148F3338	SFA 15 T 338 SAFETY VALVE 38 BAR		1.93	
148F3339	SFA 15 T 339 SAFETY VALVE 39 BAR		1.93	
148F3340	SFA 15 T 340 SAFETY VALVE 40 BAR		1.93	

SFV20 - safety relief valves (Flow diameter = 18mm)


ANGLE				
Code	Type		Approx Weight	\$
2416+285	SFV20 T 310 SAFETY VALVE 10 bar		3.97	
2416+286	SFV20 T 311 SAFETY VALVE 11 BAR		3.97	
2416+287	SFV20 T 312 SAFETY VALVE 12 BAR		3.97	
2416+160	SFV20 T 313 SAFETY VALVE 13 BAR		3.97	
2416+288	SFV20 T 314 SAFETY VALVE 14 BAR		3.97	
2416+289	SFV20 T 315 SAFETY VALVE 15 BAR		3.97	
2416+290	SFV20 T 316 SAFETY VALVE 16 BAR		3.97	
2416+291	SFV20 T 317 SAFETY VALVE 17 BAR		3.97	
2416+161	SFV20 T 318 SAFETY VALVE 18 BAR		3.97	
2416+292	SFV20 T 319 SAFETY VALVE 19 BAR		3.97	
2416+293	SFV20 T 320 SAFETY VALVE 20 BAR		3.97	
2416+162	SFV20 T 321 SAFETY VALVE 21 BAR		3.97	
2416+294	SFV20 T 322 SAFETY VALVE 22 BAR		3.97	
2416+295	SFV20 T 323 SAFETY VALVE 23 BAR		3.97	
2416+296	SFV20 T 324 SAFETY VALVE 24 BAR		3.97	
2416+186	SFV20 T 325 SAFETY VALVE 25 BAR		3.97	

## SAFETY VALVES



Certified with standard set pressure and TÜV certificate

SFV25 - safety relief valves (Flow diameter = 23mm)

ANGLE				
Code	Type		Approx Weight	\$
2416+297	SFV25 T 310 SAFETY VALVE 10 BAR		3.95	
2416+298	SFV25 T 311 SAFETY VALVE 11 BAR		3.95	
2416+299	SFV25 T 312 SAFETY VALVE 12 BAR		3.95	
2416+163	SFV25 T 313 SAFETY VALVE 13 BAR		3.95	
2416+300	SFV25 T 314 SAFETY VALVE 14 BAR		3.95	
2416+301	SFV25 T 315 SAFETY VALVE 15 BAR		3.95	
2416+302	SFV25 T 316 SAFETY VALVE 16 BAR		3.95	
2416+303	SFV25 T 317 SAFETY VALVE 17 BAR		3.95	
2416+164	SFV25 T 318 SAFETY VALVE 18 BAR		3.95	
2416+304	SFV25 T 319 SAFETY VALVE 19 BAR		3.95	
2416+305	SFV25 T 320 SAFETY VALVE 20 BAR		3.95	
2416+165	SFV25 T 321 SAFETY VALVE 21 BAR		3.95	
2416+306	SFV25 T 322 SAFETY VALVE 22 BAR		3.95	
2416+307	SFV25 T 323 SAFETY VALVE 23 BAR		3.95	
2416+308	SFV25 T 324 SAFETY VALVE 24 BAR		3.95	
2416+187	SFV25 T 325 SAFETY VALVE 25 BAR		3.95	


## DSV - Double stop valves and Accessories

Code	Type		Approx Weight	\$
148F3019	NIPPLES + GASKETS SET SFV 15/SFA 15		0.34	
148F3020	Flanges + gaskets set for SFV 20		2.72	
148F3021	Flanges + gaskets set for SFV 25		2.71	
148F3005	DSV1 D25/ND20, DUAL STOPVALVE+KIT (for SFA15)		4.94	
148F3006	DSV2 FD20/ND20, DUAL STOPVALVE+KIT (for SFA15)		9.30	
148F3007	DSV2 FD25/ND20, DUAL STOPVALVE+KIT (for SFA15)		10.00	
148F3008	DSV2 FD32/ND20, DUAL STOPVALVE+KIT (for SFA15)		9.66	
148F3009	DSV2 FD25/FD25, DUAL STOPVALVE+KIT (for SFV20)		11.70	
148F3010	DSV2 FD32/FD25, DUAL STOPVALVE+KIT (for SFV20)		11.96	
148F3011	DSV2 FD32/FD32, DUAL STOPVALVE+KIT (for SFV25)		11.60	
148F3037	Nipples + gaskets set for 25D/ND20 DSV1/SFA 15		0.96	
148F3038	Flanges + gaskets set for FD20/ND20 DSV2/SFA 15		3.17	
148F3039	Flanges + gaskets set for FD25/ND20 DSV2/SFA 15		3.16	
148F3040	Flanges + gaskets set for FD32/ND20 DSV2/SFA 15		3.16	
148F3041	Flanges + gaskets set for FD25/FD25 DSV2/SFV 20		5.18	
148F3042	Flanges + gaskets set for FD32/FD25 DSV2/SFV 20		5.21	
148F3043	Flanges + gaskets set for FD32/FD32 DSV2/SFV 25		5.04	

### Type codes

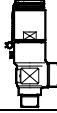
Valve type	DSV inlet connection	DSV outlet connection	SFV outlet connection	Safety valve combination	Code No.	
DSV	1	D25 (1 in.)	G ¾" Union	ND20 (¾ in.)	SFA15	148F3005
DSV	2	FD20 (¾ in.)	G ¾" thread flange	ND20 (¾ in.)	SFA15	148F3006
DSV	2	FD25 (1 in.)	G ¾" thread flange	ND20 (¾ in.)	SFA15	148F3007
DSV	2	FD32 (1¼ in.)	G ¾" thread flange	ND20 (¾ in.)	SFA15	148F3008
DSV	2	FD25 (1 in.)	G 1¼" thread flange	FD25 (1 in.)	SFV20	148F3009
DSV	2	FD32 (1¼ in.)	G 1¼" thread flange	FD25 (1 in.)	SFV20	148F3010
DSV	2	FD32 (1¼ in.)	G 1¼" thread flange	FD32 (1¼ in.)	SFV25	148F3011
Connection fittings:	D	Weld branches DIN 2448		DSV valves are supplied c/w DSV inlet connection fittings, DSV outlet connection fittings, and SFA/SFV outlet connection fittings.		
	ND	Weld nipples DIN 2448				
	FD	Weld flanges DIN 2448				

**SAFETY VALVES****POV - Internal Safety Relief Valve**

ANGLE				
Code	Type	Approx Weight	\$	
2417+047	POV 600 BUTT WELD, ANSI DN40 ANG	4.78		
148F3027	POV 1050 BUTT WELDNG, ANSI DN65 ANG	6.68		
148F3034	POV 2150 BUTT WELD, ANSI DN80 ANG	12.81		

**BSV - Pilot Valve for POV**


Supplied with TÜV certificate

ANGLE				
Code	Type	Approx Weight	\$	
2416+316	BSV 8 T 310 SAFETY VALVE 10 BAR	1.56		
2416+206	BSV 8 T 313 SAFETY VALVE 13 BAR	1.56		
2416+222	BSV 8 T 316 SAFETY VALVE 16 BAR	1.53		
2416+207	BSV 8 T 318 SAFETY VALVE 18 BAR	1.56		
2416+322	BSV 8 T 319 SAFETY VALVE 19 BAR	1.58		
2416+208	BSV 8 T 320 SAFETY VALVE 20 BAR	1.56		
2416+209	BSV 8 T 321 SAFETY VALVE 21 BAR	1.56		
2416+210	BSV 8 T 322 SAFETY VALVE 22 BAR	1.56		
2416+323	BSV 8 T 323 SAFETY VALVE 23 BAR	1.56		
2416+324	BSV 8 T 321 SAFETY VALVE 24 BAR	1.56		
2416+211	BSV 8 T 325 SAFETY VALVE 25 BAR	1.56		
148H3453	WELDING NIPPLES FOR BSV	0.56		

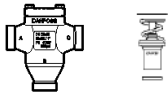
## Oil Regulating and Multifunction Valves



### KDC - Multifunctional compressor valve

		40 bar and -50 to 150 °C		
Code	Type	Size	Approx Weight	\$
148G3588	KDC-65-A-2	65		
148G3592	KDC-80-A-2	80	10.39	
148G3596	KDC-100-A-2	100	18.37	
148G3600	KDC-125-A-2	100	38.42	

### ORV - Oil regulating valve

		40 bar and -10 to 85 °C		
Code	Type	Thermostat	Approx Weight	\$
<b>Note: Complete ORV valves are not be available as at December 2013. Please order body and insert separately</b>				
148H3466	ORV THERMOSTAT H1 43°C/110°F <sup>1)</sup>	43°C		
148H3463	ORV THERMOSTAT H1 49°C/120°F <sup>1)</sup>	49°C		
148H3469	ORV THERMOSTAT H1 60°C/140°F <sup>1)</sup>	60°C		
148H3472	ORV THERMOSTAT H1 77°C/170°F <sup>1)</sup>	77°C		
148H3467	ORV THERMOSTAT H2 43°C/110°F <sup>1)</sup>	43°C		
148H3464	ORV THERMOSTAT H2 49°C/120°F <sup>1)</sup>	49°C		
148H3470	ORV THERMOSTAT H2 60°C/140°F <sup>1)</sup>	60°C		
148H3473	ORV THERMOSTAT H2 77°C/170°F <sup>1)</sup>	77°C		
148H3468	ORV THERMOSTAT H3 43°C/110°F <sup>1)</sup>	43°C		
148H3465	ORV THERMOSTAT H3 49°C/120°F (2 PCS) <sup>1)</sup>	49°C		
148H3471	ORV THERMOSTAT H3 60°C/140°F (2 PCS) <sup>1)</sup>	60°C		
148H3474	ORV THERMOSTAT H3 77°C/170°F (2 PCS) <sup>1)</sup>	77°C		

Code	Type	Housing	Approx Weight	\$
148H3400	ORV 25 SOC H1 Valve housing with cover <sup>3)</sup>	25		
148H3401	ORV 25 ANSI H1 Valve housing with cover <sup>3)</sup>	25		
148H3404	ORV 40 ANSI H1 Valve housing with cover <sup>3)</sup>	40		
148H3403	ORV 40 SOC H2 Valve housing with cover <sup>3)</sup>	40		
148H3405	ORV 40 ANSI H2 Valve housing with cover <sup>3)</sup>	40		
148H3407	ORV 50 SOC H2 Valve housing with cover <sup>3)</sup>	50		
148H3408	ORV 50 ANSI H2 Valve housing with cover <sup>3)</sup>	50		
148H3410	ORV 65 ANSI H3 Valve housing with cover <sup>3)</sup>	65		
148H3411	ORV 80 ANSI H3 Valve housing with cover <sup>3)</sup>	80		
		<b>Spares</b>		
148H3246	ORV DISMOUNTING KIT H1 <sup>4)</sup>	25 & 40		
148H3247	ORV DISMOUNTING KIT H2 <sup>4)</sup>	40 & 50		
148H3248	ORV DISMOUNTING KIT H3 <sup>2)</sup>	65 & 80		

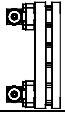
<sup>1)</sup> Includes cover gasket but does **NOT** include guide ring.

<sup>2)</sup> Includes two guide rings and one cover gasket

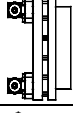
<sup>3)</sup> Includes cover gasket and guide ring/s but without thermostat

<sup>4)</sup> Includes one guide ring & one cover gasket


**SIGHT GLASSES****LLG -Liquid Level Glasses with Stop Valves**

		25 bar		
Code	Type	Length	Approx Weight	\$
2512+056	LLG 185 S	185	7.66	
2512+057	LLG 335 S	335	10.75	
2512+058	LLG 590 S	590	17.90	
2512+059	LLG 740 S	740	19.19	
2512+060	LLG 995 S	995	26.34	
2512+061	LLG 1145 S	1145	29.43	
2512+062	LLG 1550 S	1550	37.87	


**LLG -Liquid Level Glasses with Stop Valves Low Temp**

		25 bar		
Code	Type	Length	Approx Weight	\$
2512+066	LLG 185 SF	185	7.89	
2512+067	LLG 335 SF	335	11.09	
2512+068	LLG 590 SF	590	18.47	
2512+069	LLG 740 SF	740	20.98	
2512+070	LLG 995 SF	995	26.57	
2512+071	LLG 1145 SF	1145	29.81	
2512+072	LLG 1550 SF	1550	38.83	

**LLG -Liquid Level Glasses with Welding Nipples**

		25 bar		
Code	Type	Length	Approx Weight	\$
2512+050	LLG 335	335	9.76	
2512+051	LLG 590	590	16.91	
2512+052	LLG 740	740	18.20	
2512+053	LLG 995	995	25.34	
2512+054	LLG 1145	1145	28.44	
2512+055	LLG 1550	1550	36.88	

**MLI - Inline Sight Glass**



Straight		25 bar and -40 to 80 °C		
Code	Type	Size	Approx Weight	\$
2511+088	MLI 20 A 100	20	0.65	
2511+089	MLI 25 A 100	25		

**Note:** Moisture indicator must be removed for use on ammonia


# GAS DETECTORS




## GD - Gas Detectors & Accessories

IP30 -20 to 40 degC (Standard Basic version)				
Code	Type	Gas	Approx Weight	\$
148H5000	GDA EC 100 PPM	R717	1.05	
148H5200	GDA EC 100 PPM SENSOR PCB <sup>1)</sup>	R717	1.05	
148H5060	GDA EC 300 PPM	R717	1.00	
148H5215	GDA EC 300 PPM SENSOR PCB <sup>1)</sup>	R717	0.78	
148H5010	GDA EC 1,000 PPM	R717	1.04	
148H5201	GDA EC 1,000 PPM SENSOR PCB <sup>1)</sup>	R717	1.05	
148H5040	GDA SC 1,000 PPM	R717	1.05	
148H5249	GDA SC 1,000 PPM SENSOR PCB <sup>1)</sup>	R717	0.07	
148H5020	GDA SC 10,000 PPM	R717	1.05	
148H5202	GDA SC 10,000 PPM SENSOR PCB <sup>1)</sup>	R717	1.05	
148H5110	GDHF SC 1,000 PPM	HFC	1.01	
148H5206	GDHF SC 1,000 PPM SENSOR PCB <sup>1)</sup>	HFC	1.05	
148H5071	GDC IR 10,000 PPM c/w LCD DISPLAY	CO2	1.05	


### IP65 -20 to 40 degC (with Stainless Steel sensor head)

Code	Type 	Gas	Approx Weight	\$
148H5012	GDA EC 1,000 PPM IP 65	R717	1.05	
148H5209	GDA EC 1,000 PPM IP 65 SENSOR PCB <sup>1)</sup>	R717	1.05	
148H5042	GDA SC 1,000 PPM IP 65	R717	1.05	
148H5254	GDA SC 1,000 PPM IP 65 SENSOR PCB <sup>1)</sup>	R717	0.45	


### IP65 -20 to 40 degC (with Plastic sensor head)

Code	Type 	Gas	Approx Weight	\$
148H5059	GDA EC 1,000 PPM	R717	1.05	
148H5226	GDA EC 1,000 PPM SENSOR PCB <sup>1)</sup>	R717	1.05	

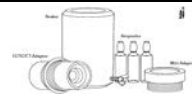
### IP65 LOW TEMPERATURE -40 to 40 degC (with Plastic sensor head)

Code	Type 	Gas	Approx Weight	\$
148H5065	GDA EC 300 PPM LOW TEMP	R717	0.81	
148H5224	GDA EC 300 PPM L/TEMP SENSOR PCB <sup>1)</sup>	R717	0.10	
148H5015	GDA EC 1,000 PPM LOW TEMP	R717	0.82	
148H5225	GDA EC 1,000 PPM L/TEMP SENSOR PCB <sup>1)</sup>	R717	0.10	
148H5082	GDC IR 20,000 PPM LOW TEMP	CO2	1.05	
148H5219	GDC IR 20,000 PPM L/TEMP SENSOR PCB <sup>1)</sup>	CO2	0.10	

### EExd (ATEX approval only at this stage)

Code	Type 	Gas	Approx Weight	\$
148H5013	GDA EC 1000 EExd	R717	1.05	
148H5209	GDA EC 1000 EExd SENSOR AND PCB <sup>1)</sup>	R717	1.05	
148H5023	GDA SC 10000 EExd	R717	1.05	
148H5241	GDA SC 10000 EExd SENSOR AND PCB <sup>1)</sup>	R717	0.46	
148H5033	GDA CT 30000 EExd	R717	1.05	
148H5211	GDA CT 30000 EExd SENSOR AND PCB <sup>1)</sup>	R717	1.05	

## GD - Accessories and Spare Parts



Code	Type	Gas	Approx Weight	\$
148H5230	GD BUMP TEST KIT	All	1.05	
148H5234	GDA AMMONIA 100 PPM AMPOULES <sup>2)</sup>	R717	0.09	
148H5235	GDA AMMONIA 1,000 PPM AMPOULES <sup>2)</sup>	R717	0.09	
148H5236	GD CO2 2,000 PPM AMPOULES ***	R744	0.09	
148H5239	GD Tester for mother board, PCB	All	0.10	

<sup>1)</sup> This code is for the replacement sensor/daughter board for the code above it

<sup>2)</sup> Only sold in multiples of 10



## PRESSURE AND TEMPERATURE CONTROLS



### KP - Pressure and Temperature Controls



Code	Pressure	Type	Low Pressure		High Pressure		Reset	Approx Weight	\$
			Range	Diff	Range	Diff	LP/HP		
060-116066	Low	KP1A	-0.2 - 7.5	0.7 - 4.0			Auto	0.43	
060-116166	Low	KP1A	-0.9 - 7.0	Fixed 0.7			Man	0.42	
060-123166	High	KP5A			8 - 32	Fixed 3	Man	0.42	
060-123066	High	KP5A			8 - 32	1.8 - 6.0	Auto	0.44	
060-519066	High	KP6W <sup>1)</sup>			8 - 42	4 - 10	Auto	0.31	
060-519166	High	KP6B <sup>1)</sup>			8 - 42	Fixed 4	Man	0.29	
060-129466	Dual	KP15A	-0.2 - 7.5	0.7 - 4.0	8 - 32	Fixed 4	Aut/Man	0.71	
060-128366	Dual	KP15A	-0.9 - 7.0	Fixed 0.7	8 - 32	Fixed 4	Conv/Conv	0.69	
060-129366	Dual	KP15A	-0.2 - 7.5	0.7 - 4.0	8 - 32	Fixed 4	Aut/Aut	0.72	
	Temp	Type	Oil Temp		High Temp				
060L113166	Oil & HT	KP98	60 - 120C	Fixed 14	100 - 180C	Fixed 25	Man	0.62	
060L112166	H / Temp	KP77			20 - 60C	3.5 - 10C	Auto	0.37	

<sup>1)</sup> KP6 is NOT suitable for Ammonia. Used mostly on CO2

\*\*\* KP Pressure Complete with 1 m cap tube with M10 x 0.75 (060-007866 as spare part)

\*\*\* IP55 enclosures are available for single (060-033066) and dual (060-035066) controls

\*\*\* KP 112mm sensor pocket SS 1/2" BSP with gland 017-436966

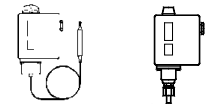
### MP, RT - Differential Pressure Controls



Code	Type	Diff	Switch Diff	Range LP	Time Relay	Contact Load	Approx Weight	\$
060B029866	MP 55A	0.3 - 4.5	0.2	-1 - 12	0	B	0.78	
060B017466	MP 55A	0.3 - 4.5	0.2	-1 - 12	45	A	0.83	
060B017566	MP 55A	0.3 - 4.5	0.2	-1 - 12	60	A	0.80	
060B017666	MP 55A	0.3 - 4.5	0.2	-1 - 12	90	A	0.80	
017D002166	RT260A	0.5 - 4.0	0.3	-1 - 18			0.99	
017D002566	RT262A	0.1 - 1.5	0.1	-1 - 9			1.07	

\*\*\* Complete with Weld Nipples

### RT - Pressure Controls

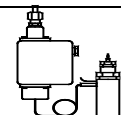


Code	Pressure	Type	Range	Diff	Working Pressure	Test Pressure	Reset	Approx Weight	\$
017-500166	Low	RT1A	-0.8 - 5	0.5 - 1.6	22	25	Aut	0.80	
017-500266	Low	RT1A	-0.8 - 5	Fixed 0.5	22	25	Man	0.82	
017-504666	High	RT5A	4 - 17	1.2 - 4.0	22	25	Aut	0.79	
017-504766	High	RT5A	4 - 17	Fixed 1.2	22	25	Man	0.81	
Code	Temp	Type	Range	Diff	Max Bulb Temp		Reset	Approx Weight	List Price
017-509966	MED	RT14	-5 - 30	2 - 10	150		AUTO	0.86	

\*\*\* RT 112mm sensor pocket SS 1/2" BSP with gland 017-436966

\*\*\* RT Press Complete with Weld Nipple

### RT - Liquid Level and Alarm Controls



Code	Type	Range	Diff	Working Pressure	Test Pressure	Enclosure	Approx Weight	\$
017D004066	RT 280A	-50 - 0	40 mm	22	25	IP 66	1.84	
017D004666	RT 281A	-30 - 20	40 mm	22	25	IP 66	1.84	

\*\*\* Complete with Weld Nipple

## PRESSURE TRANSMITTERS AND TEMPERATURE SENSORS



## AKS 33 - Pressure Transmitters 4-20 mA (with DIN plug fitted)



Code	Operating Range Bar	Max. Pressure	Temp. Range	Connection	Approx Weight	\$
060G2112	-1 - 5		-30 - 40	1/4 NPT	0.20	
060G2100	-1 - 6	33	-30 - 40	1/4 NPT	0.20	
060G2113	-1 - 9	33	-30 - 40	1/4 NPT	0.20	
060G2101	-1 - 12	33	-30 - 40	1/4 NPT	0.20	
060G2102	-1 - 20	40	0 - 80	1/4 NPT	0.20	
060G2103	-1 - 34	55	0 - 80	1/4 NPT	0.20	
060G2115	0 - 25	40	0 - 80	1/4 NPT	0.20	
060G2114	0 - 16	40	0 - 80	1/4 NPT	0.20	
060G0250	PULSATION SNUBBER ADAPTOR			1/4 NPT	0.08	

060G2108	-1 - 5	33	-30 - 40	G 3/8 A	0.21	
060G2104	-1 - 6	33	-30 - 40	G 3/8 A	0.21	
060G2111	-1 - 9	33	-30 - 40	G 3/8 A	0.21	
060G2105	-1 - 12	33	-30 - 40	G 3/8 A	0.21	
060G2106	-1 - 20	40	0 - 80	G 3/8 A	0.21	
060G2107	-1 - 34	55	0 - 80	G 3/8 A	0.21	
060G2109	0 - 16	40	0 - 80	G 3/8 A	0.21	
060G2110	0 - 25	40	0 - 80	G 3/8 A	0.21	
060G0251	PULSATION SNUBBER ADAPTOR			G 3/8 A	0.08	

## AKS 3000 - Pressure Transmitters 4-20 mA (Extra HP) (with DIN plug fitted)



Code	Operating Range Bar	Max. Pressure	Temp. Range	Connection	Approx Weight	\$
060G1328	0 - 40	100	0 - 80	1/4" flare	0.18	
060G1083	0 - 60	100	0 - 80	1/4" NPT	0.18	

## AKS 12 - Temperature Sensors Pt1000



Code	Type	Temp Range	Cable	Approx Weight	\$
084N0036	AKS 12	-40 + 80	1.5 m	0.05	
084N0039	AKS 12	-40 + 80	3.5 m	0.11	
084N0038	AKS 12	-40 + 80	5.5 m	0.18	

## AKS 11 &amp; 21 - Temperature Sensors Pt1000



Code	Type	Temp Range	Cable	Approx Weight	\$
084N0003	AKS 11 SURFACE MOUNT	-50 +100	3.5 m	0.08	
084N2016	AKS 21W IMMERSION CW T/BOX	-70 +180	2.5 m	0.43	
084N2017	AKS 21W IMMERSION	-70 +180	2.5 m	0.29	
084N2007	AKS 21A SURFACE CW CLIP	-70 +180	2.5 m	0.11	
084N2040	AKS 120 THERMOWELL for AKS 21			0.14	



**SPARE PARTS**



**SVL - Line Valves**



**Inspection Kit- (SVA-ST/LT/HS/L/S, REG SA/SB, SCA/X, FIA, CHV/X)**


\* Contains all gaskets, O-rings and aluminium rings belonging to 1 valve size

Code	 Description 	Approx Weight	\$
148B6050	Inspection kit for SVL DN 6-10	0.01	
148B6051	Inspection kit for SVL DN 15-20	0.01	
148B6052	Inspection kit for SVL DN 25-40	0.01	
148B6053	Inspection kit for SVL DN 50	0.02	
148B6054	Inspection kit for SVL DN 65	0.02	
148B6055	Inspection kit for SVL DN 80	0.02	
148B6056	Inspection kit for SVL DN 100	0.03	
148B6057	Inspection kit for SVL DN 125	0.03	
148B6058	Inspection kit for SVL DN 150	0.04	
148B6059	Inspection kit for SVL DN 200	0.04	

**Repair kit- (SVA-ST/LT/HS/L/S, REG SA/SB, SCA/X)**

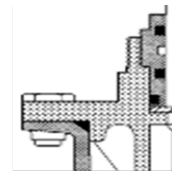
\* Contains all gaskets, O-rings and aluminium rings belonging to one valve size and a complete packing gland

Code	 Description 	Approx Weight	\$
148B6060	Repair kit for SVL DN 6-10	0.02	
148B6061	Repair kit for SVL DN 15-20	0.05	
148B6062	Repair kit for SVL DN 25-40	0.13	
148B6063	Repair kit for SVL DN 50	0.13	
148B6064	Repair kit for SVL DN 65	0.13	
148B6065	Repair kit for SVL DN 80	0.20	
148B6066	Repair kit for SVL DN 100	0.20	
148B6067	Repair kit for SVL DN 125	0.34	
148B6068	Repair kit for SVL DN 150	0.35	
148B6473	Repair kit for SVL DN 200	0.60	

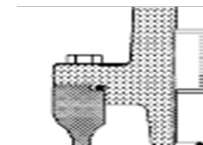
-  Repair Kits not keep in AUS stock please use Inspection or Overhaul kits for better availabilities

**How to identify the old SCV from the SVA stop valves (rule of thumb)**

\*\*\* The old **SCV** has a pronounced flange look at the top of the body



\*\*\* The **SVA** has bolts that are more encapsulated compared to the SCV

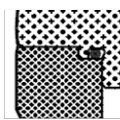


\*\*\* New **SVL** kits include o-rings and gaskets for series 1, 2 and 3

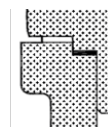
SVA Series 1



SVA Series 2



SVA Series 3





**SPARE PARTS**



**SVL - Line Valves (SVA-ST/LT/HS/L/S, REG SA/SB, SCA/X, FIA, CHV/X)**

**Overhaul kit-**  
 \* Contains all gaskets, O-rings and aluminium rings belonging to indicated valve and size and complete packing gland plus parts that could be damaged or worn out.

Code		Description		Approx Weight	\$
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**Overhaul Kit for SVA-S/L, ST, LT, HS, SS**

148B6150	SVA Overhaul Kit DN 6-10	0.05	
148B6151	SVA Overhaul Kit DN 15-20	0.10	
148B6152	SVA Overhaul Kit DN 25-40	0.26	
148B6153	SVA Overhaul Kit DN 50	0.34	
148B6154	SVA Overhaul Kit DN 65	0.51	
148B6155	SVA Overhaul Kit DN 80	1.09	
148B6156	SVA Overhaul Kit DN 100	1.76	
148B6157	SVA Overhaul Kit DN 125	3.09	
148B6158	SVA Overhaul Kit DN 150	4.61	
148B6472	SVA Overhaul Kit DN 200 (new)	9.32	

**Repair Kit for SVA-DL 250 and 300**

148B4175	REPAIR KIT SVA-DL 250 (not part of SVL spare part range)	1.20	
148B4176	REPAIR KIT SVA-DL 300 (not part of SVL spare part range)	1.00	

**Overhaul Kit for SCA and SCA- X**

148B6160	SCA Overhaul Kit DN 15-20	0.16	
148B6161	SCA Overhaul Kit DN 25-40	0.50	
148B6162	SCA Overhaul Kit DN 50	0.55	
148B6163	SCA Overhaul Kit DN 65	0.85	
148B6164	SCA Overhaul Kit DN 80	1.66	
148B6165	SCA Overhaul Kit DN 100	1.35	
148B6166	SCA Overhaul Kit DN 125	4.92	

**Overhaul Kit for CHV and CHV- X**

148B6167	CHV Overhaul Kit DN 15-20	0.12	
148B6168	CHV Overhaul Kit DN 25-40	0.38	
148B6169	CHV Overhaul Kit DN 50	0.44	
148B6170	CHV Overhaul Kit DN 65	0.73	
148B6171	CHV Overhaul Kit DN 80	1.50	
148B6172	CHV Overhaul Kit DN 100	2.45	
148B6173	CHV Overhaul Kit DN 125	4.59	

**Overhaul Kit for REG-SA/SB**



148B6174	REG Overhaul Kit DN 10 cone A & B	0.12	
148B6175	REG Overhaul Kit DN 15-20 cone A & B	0.16	
148B6176	REG Overhaul Kit DN 25-40 cone A & B	0.59	
148B6177	REG Overhaul Kit DN 50 cone B	0.64	
148B6178	REG Overhaul Kit DN 65 cone B	0.93	

Note: Above REG-S/B codes are for new range only. Please see codes for old numerical cone range.

**SPARE PARTS / ACCESSORIES**



**SVL - Line Valves (SVA-ST/LT/HS/L/S, REG SA/SB, SCA/X, FIA, CHV/X)**


Code	 Description 	Approx Weight	\$
148B4074	CAP+GASKET SVA 3-10 **	0.04	
148B4075	CAP+GASKET SVA 15-20 **	0.09	
148B4076	CAP+GASKET SVA 25-65 **	0.20	
148B4077	CAP+GASKET SVA 80-100 **	0.17	
148B4078	CAP+GASKET SVA 125-150 **	0.78	
148B4079	CAP+GASKET SVA 200 **	1.71	
148B4300	HANDWHEEL-SS SVA 15-20	148B4300	
148B4301	HANDWHEEL-SS SVA 25-40	148B4301	
148B4073	HANDWHEEL-STD SVA 3-10	0.03	
148B4060	HANDWHEEL-STD SVA 15-20	0.04	
148B4062	HANDWHEEL-STD SVA 25-40	0.06	
148B4064	HANDWHEEL-HEAVY SVA 50-65	0.21	
148B4065	HANDWHEEL-HEAVY SVA 80	0.73	
148B4066	HANDWHEEL-HEAVY SVA 100	1.42	
148B4067	HANDWHEEL-HEAVY SVA 125-150	1.83	
148B4068	HANDWHEEL-HEAVY SVA 200	4.32	
148G3204	SPRING-STD 0.04BAR SCA 15-20		
148G3205	SPRING-STD 0.04BAR SCA 25-40 #	0.50	
148G3475	SPRING-STD 0.04BAR SCA/CHV 50	0.02	
148G3476	SPRING-STD 0.04BAR SCA/CHV 65	0.03	
148G3477	SPRING-STD 0.04BAR SCA/CHV 80	0.07	
148G3478	SPRING-STD 0.04BAR SCA/CHV100	0.14	
148G3479	SPRING-STD 0.04BAR SCA/CHV125	0.31	
148G3206	SPRING-SPEC 0.3BAR SCA 15-20#	0.02	
148G3207	SPRING-SPEC 0.3BAR SCA 25-40#	0.08	
148G3480	SPRING-SPEC 0.3BAR SCA/CHV 50	0.03	
148G3481	SPRING-SPEC 0.3BAR SCA/CHV 65	0.04	
148G3734	SPRING-SPEC 0.3BAR SCA/CHV 100		
148G3735	SPRING-SPEC 0.3 BAR SCA/CHV125	0.36	
148B4153	SVA-HS/FIA 15-20 GASKET TOP (price ea, sold in lots of 10)	0.01	
148B4154	SVA-HS/FIA 25-40 GASKET TOP (price ea, sold in lots of 10)	0.01	
148B4155	SVA-HS/FIA 50 GASKET-TOP (price ea, sold in lots of 10)	0.01	
148B4156	SVA-HS/FIA 65 GASKET-TOP (price ea, sold in lots of 10)	0.10	
148B4157	SVA-HS/FIA 80 GASKET-TOP (price ea, sold in lots of 10)	0.01	
148B4158	SVA-HS/FIA 100 GASKET-TOP (price ea, sold in lots of 10)	0.01	
148B4159	SVA-HS/FIA 125 GASKET-TOP (price ea, sold in lots of 10)	0.07	
148B4160	SVA-HS/FIA 150 GASKET-TOP (price ea, sold in lots of 10)	0.02	
148B4161	SVA-HS/FIA 200 GASKET-TOP (price ea, sold in lots of 10)	0.15	
148H3445	TUBE OF GREASE 30G FOR PACKING GLAND	0.04	

**SPARE PARTS**




**Old Line Valves** not covered under new parts program - (SCV, SCH, REG numerical etc)


**SCV - Stop Valves**

Code		Description	Approx Weight	\$
3184+073		REPAIR KIT SCV 10-20 (prior to SVA)	0.01	
3184+076		REPAIR KIT SCV 25-32 (prior to SVA)	0.03	
3184+077		REPAIR KIT SCV 40-50 (prior to SVA)	0.05	
3184+078		REPAIR KIT SCV 65-80 (prior to SVA)	0.07	
3184+079		REPAIR KIT SCV 100 (prior to SVA)	0.11	
3184+080		REPAIR KIT SCV 125 (prior to SVA)	0.06	
3184+081		REPAIR KIT SCV 150 and 200 (prior to SVA)	0.09	
3184+108		REPAIR KIT SCV 250 (prior to SVA)	1.25	
3184+109		REPAIR KIT SCV 300 (prior to SVA)	1.73	

**REG - Regulating Valves (old range with numeric cone sizes)**

Code		Description	Approx Weight	\$
2453+037		REPAIR KIT REG 3-10 CONE 3	0.02	
2453+038		REPAIR KIT REG 10-25 CONE 4	0.11	
2453+039		REPAIR KIT REG 10-25 CONE 5	0.07	
2453+040		REPAIR KIT REG 10-25 CONE 6	0.16	
2453+041		REPAIR KIT REG 10-25 CONE 7	0.10	
2453+042		REPAIR KIT REG 10-25 CONE 8	0.31	
2453+043		REPAIR KIT REG 25-40 CONE 9	0.20	
2453+044		REPAIR KIT REG 25-40 CONE 10	0.18	
148G3197		REPAIR KIT REG 50 CONE 11	0.67	
148G3198		REPAIR KIT REG 65 CONE 12	0.99	

**SCH - Stop Check Valves (prior to SCA)**


Code		Description	Approx Weight	\$
2453+077		REPAIR KIT SCH 15-20	0.09	
2453+078		REPAIR KIT SCH 25-40	0.23	
3184+112		REPAIR KIT SCH 40-50	0.05	
3184+113		REPAIR KIT SCH 65-80	0.06	
3184+114		REPAIR KIT SCH 100	0.08	
3184+115		REPAIR KIT SCH 125	0.18	
3184+116		REPAIR KIT SCH 150-200	0.06	



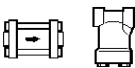
**SPARE PARTS**




**FIA - Strainers**

Code		Description	Approx Weight	\$
148H3446		Magnet insert 50	0.33	
148H3447		Magnet insert 65 - 100	0.47	
148H3448		Magnet insert 125 - 200	0.60	
148B4153		GASKET-TOP FIA 15-20 I-PACK (sold in lots of 10pcs)	0.01	
148B4154		GASKET-TOP FIA 25-40 I-PACK (sold in lots of 10pcs)	0.01	
148B4155		GASKET-TOP FIA 50 I-PACK (sold in lots of 10pcs)	0.01	
148B4156		GASKET-TOP FIA 65 I-PACK (sold in lots of 10pcs)	0.10	
148B4157		GASKET-TOP FIA 80 I-PACK (sold in lots of 10pcs)	0.01	
148B4158		GASKET-TOP FIA 100 I-PACK (sold in lots of 10pcs)	0.01	
148B4159		GASKET-TOP FIA 125 I-PACK(sold in lots of 10pcs)	0.07	
148B4160		GASKET-TOP FIA 150 I-PACK (sold in lots of 10pcs)	0.02	
148B4161		GASKET-TOP FIA 200 I-PACK (sold in lots of 10pcs)	0.15	

**FA / NRVA - Line Components**

Code		Description	Approx Weight	\$
006-0331		REPAIR KIT FA 15 (strainer, cover gasket & screws)	0.05	
006-0332		REPAIR KIT FA 20 (strainer, cover gasket & screws)	0.06	
006-0333		REPAIR KIT FA 25 (strainer, cover gasket & screws)	0.07	
006-0334		SEAL KIT FA 15 (cover & flange gaskets)	0.00	
006-0335		SEAL KIT FA 20 (cover & flange gaskets)	0.01	
006-0336		SEAL KIT FA 25 (cover & flange gaskets)	0.01	
020-2133		FLANGE GASKETS (EVRA3-15, NRVA15-20, TE/A/VA/AT20)	0.00	

**GPLX - Gas Powered Stop Valves - Two Step**

Code		Description	Approx Weight	\$
148G3427		GPLX 80 Spare part kit dismounting Kit	0.10	
148G3428		GPLX 100 Spare part kit dismounting Kit	0.10	
148G3429		GPLX 125 Spare part kit dismounting Kit	0.01	
148G3430		GPLX 150 Spare part kit dismounting Kit	0.02	
148G0100		GPLX 80 - Repair kit - Additional	0.19	
148G0101		GPLX 100 - Repair Kit - Additional	0.39	
148G0102		GPLX 125 - Repair Kit - Additional	0.48	
148G0103		GPLX 150 - Repair Kit Additional	0.00	
148G0104		GPLX 80 - Repair Kit - Overhaul	1.60	
148G0105		GPLX 100 - Repair Kit - Overhaul	2.53	
148G0106		GPLX 125 - Repair Kit - Overhaul	0.00	
148G0107		GPLX 150 - Repair Kit - Overhaul	7.96	
2453+103		EVRB Complete pilot valve block type W/O coils	1.25	

# SPARE PARTS



## EVRA(T) (S) - Solenoid Valves

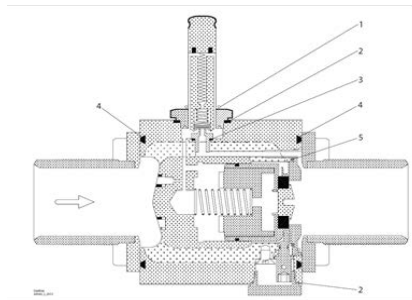
<b>Inspection Kit-</b>			
<b>* Contains all gaskets, O-rings and aluminium rings belonging to 1 valve.</b>			
Code	Description	Approx Weight	\$
032F2326	INSPECTION KIT EVRA 25	0.01	
032F2327	INSPECTION KIT EVRA 32,40	0.01	

<b>Overhaul kit-</b>			
<b>* Contains all gaskets, O-rings and aluminium rings belonging to one valve size and parts what could be damaged or worn out.</b>			
Code	Description	Approx Weight	\$
032F2336	OVERHAUL KIT EVRA/EVRS 3 NEW DESIGN	0.11	
032F2339	OVERHAUL KIT EVRA/EVRS 20 NEW DESIGN <sup>(2)</sup>	0.66	
032F2340	OVERHAUL KIT EVRA/EVRS 25 NEW DESIGN	0.62	
032F2341	OVERHAUL KIT EVRA/EVRS 32 NEW DESIGN	0.47	
032F2342	OVERHAUL KIT EVRA/EVRS 40 NEW DESIGN	0.47	
032F2346	OVERHAUL KIT EVRAT, EVRST 10 NEW DESIGN <sup>(1)</sup>	0.37	
032F2347	OVERHAUL KIT EVRAT, EVRST 15 NEW DESIGN <sup>(1)</sup>	0.63	
032F2348	OVERHAUL KIT EVRAT, EVRST 20 NEW DESIGN <sup>(2)</sup>	0.36	
032F2209	OVERHAUL KIT EVRA 15 PREVIOUS DESIGN <sup>(2)</sup>	0.42	
032F2210	OVERHAUL KIT EVRA 20 PREVIOUS DESIGN <sup>(2)</sup>	0.58	
032F2218	OVERHAUL KIT EVRA 25 PREVIOUS DESIGN	0.42	
032F2321	OVERHAUL KIT EVRAT 10 PREVIOUS DESIGN <sup>(1)</sup>	0.34	
032F2322	OVERHAUL KIT EVRAT 15 PREVIOUS DESIGN <sup>(1)</sup>	0.28	
032F2323	OVERHAUL KIT EVRAT 20 PREVIOUS DESIGN <sup>(2)</sup>	0.28	

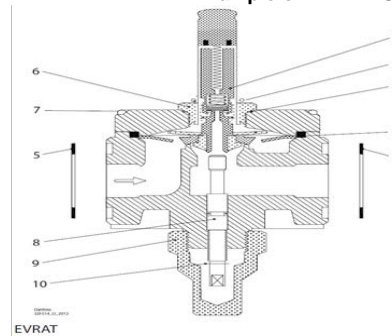
<sup>1)</sup> Kit can be used for EVRA and EVRAT of the same size (please note previous and new design)

<sup>2)</sup> Use valve specific service kits for EVRA20 & EVRAT20 (please note previous and new design)

### Example of EVRA32/40 Inspection Kit



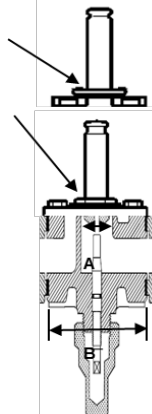
### Example of EVRAT Overhaul Kit



### How to identify previous and new EVRAT (3 to 25)

\*\*\* Old / previous design has armature assembly held in by 4 screws

\*\*\* New design has armature assembly that screws in with hex at bottom of tube



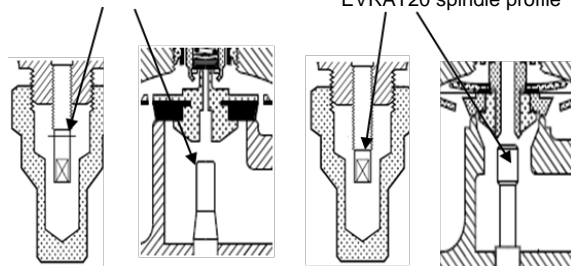
### How to identify EVRA/T valves

- A: EVRA/T10 = 10 mm  
EVRA/T15 = 14 mm
- B: EVRA/T10 & 15 = 68 mm  
EVRA/T20 = 85 mm  
EVRA25 = 92 mm

### How to identify EVRA20 and EVRAT20 (previous or new)

\*\*\* EVRA20 spindle profile

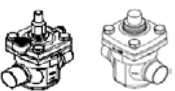

\*\*\* EVRAT20 spindle profile

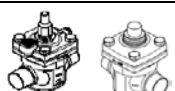



**SPARE PARTS**



**ICV - Control Valves (ICS, ICM and ICLX)**

<b>Inspection Kit-</b>					
<b>* Contains all gaskets, O-rings and aluminium rings belonging to 1 valve size</b>					
Code		Description		Approx Weight	\$
027H2218		ICS/ICM 25, Inspection kit		0.78	
027H3016		ICS/ICLX/ICM 32, Inspection kit		0.21	
027H4014		ICS/ICLX/ICM 40, Inspection kit		0.08	
027H5014		ICS/ICLX/ICM 50, Inspection kit		0.78	
027H6016		ICS/ICLX/ICM 65/80, Inspection kit		0.78	
027H7191		ICS/ICLX/ICM 100, Inspection kit		0.78	
027H7194		ICS/ICLX/ICM 125, Inspection kit		0.78	
027H7196		ICS/ICLX/ICM 150, Inspection kit		0.78	

<b>Repair kit-</b>					
<b>* Contain all gaskets, O-rings and aluminium rings belonging to one valve size, valve seat and piston ring.</b>					
Code		Description		Approx Weight	\$
027H2219		ICS 25 Repair kit		0.78	
027H3017		ICS/ICLX 32 Repair kit		0.08	
027H4015		ICS/ICLX 40 Repair kit		0.78	
027H5015		ICS/ICLX 50 Repair kit		0.10	
027H6017		ICS/ICLX 65/80 Repair kit		0.15	
027H7192		ICS/ICLX 100 Repair kit		0.78	
027H7204		ICS/ICLX 125 Repair kit		0.78	
027H7197		ICS/ICLX 150 Repair kit		0.78	
027H1190		ICM 20 Repair kit (20A-33 / 20A / 20B-66 / 20B / 20C)		0.03	
027H7135		ICM 100 Repair kit		0.80	
027H7155		ICM 125 Repair kit		0.89	
027H7175		ICM 150 Repair kit		0.92	

<b>Jacking Spindle is temporarily available as a separate code</b>					
027F2130		MANUAL OPERATION PM 25-65 and ICS 25-80		0.21	
027F2134		MANUAL OPERATION PM 80-125		0.76	

**SPARE PARTS**

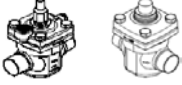



**ICV - Control Valves (ICS, ICM and ICLX)**

**Overhaul kit-**

\* Contain all gaskets, O-rings and aluminium rings belonging to 1 valve size and parts what could be damaged or worn out.

Where possible, code numbers of complete modules or top parts from parts program are used.

Code		Description		Approx Weight	\$
027H2225		ICS 25-5 Overhaul kit		0.78	
027H2138		ICS 25-10 Overhaul kit		0.78	
027H3019		ICS 25-15 Overhaul kit		0.78	
027H3043		ICS 25 -20 Overhaul kit		0.78	
027H3044		ICS 25-25 Overhaul kit		0.78	
027H3018		ICS 32 Overhaul kit		0.78	
027H4016		ICS 40 Overhaul kit		0.78	
027H5016		ICS 50 Overhaul kit		0.78	
027H6018		ICS 65 Overhaul kit		0.78	
027H6028		ICS 80 Overhaul kit		0.78	
027H7193		ICS 100 Overhaul kit		0.78	
027H7195		ICS 125 Overhaul kit		0.78	
027H7198		ICS 150 Overhaul kit		0.78	
027H1186		ICM 20 A33 Overhaul kit		1.28	
027H1180		ICM 20 A Overhaul kit		1.31	
027H1194		ICM 20 B66 Overhaul kit		1.31	
027H1181		ICM 20 B Overhaul kit		1.31	
027H1182		ICM 20 C Overhaul kit		1.31	
027H2180		ICM 25A Overhaul kit		1.79	
027H2181		ICM 25B Overhaul kit		1.85	
027H3180		ICM 32A Overhaul kit		2.76	
027H3181		ICM 32B Overhaul kit		2.84	
027H4180		ICM 40A Overhaul kit		3.57	
027H4181		ICM 40B Overhaul kit		3.50	
027H5180		ICM 50A Overhaul kit		5.02	
027H5181		ICM 50B Overhaul kit		4.92	
027H6180		ICM 65A Overhaul kit		6.75	
027H6181		ICM 65B Overhaul kit		6.95	
027H7136		ICM 100 Overhaul kit		7.73	
027H7156		ICM 125 Overhaul kit		10.54	
027H7176		ICM 150 Overhaul kit		24.86	
027H3204		ICLX 32 Overhaul kit		2.76	
027H4204		ICLX 40 Overhaul kit		3.57	
027H5204		ICLX 50 Overhaul kit		5.02	
027H6204		ICLX 65 Overhaul kit		6.75	
027H7221		ICLX 100 Overhaul kit		0.78	
027H7222		ICLX 125 Overhaul kit		0.78	
027H7223		ICLX 150 Overhaul kit		0.78	

**SPARE PARTS**



**ICF - Valve Stations**

Code	Description	Approx Weight	\$
027L1250	ICFS 20 STOP VALVE MODULE, SPARE PART	1.09	
027L2250	ICFS 25-40 STOP VALVE MODULE, SPARE PART	2.23	
027L1251	ICFF 20 FILTER MODULE, SPARE PART	0.72	
027L2256	ICFF20E FILTER MODULE, SPARE PART	1.17	
027L2299	ICFF 25-40E FILTER MODULE, SPARE PART		
148H3363	ICFF 20 FILTER INSERT 250u <sup>2)</sup>	0.03	
148H3269	ICFF 20E FILTER INSERT 250u <sup>2)</sup>	0.05	
148H3296	ICFF 25-40E FILTER INSERT 250u	0.13	
027L1253	ICFN 20 STOP/CHECK MODULE, SPARE	1.10	
027L2253	ICFN 25-40 STOP/CHECK MODULE, SPARE	2.16	
027L2252	ICFC 25-40 CHECK VALVE MODULE, SPARE PART	1.51	
027L1254	ICFR 20 A REGULATION MODULE, SPARE PART	1.10	
027H1255	ICFR 20 B REGULATION MODULE, SPARE PART		
027L2254	ICFR 25-40 A REGULATION MODULE, SPARE PART	2.33	
027L2255	ICFR 25-40 B REGULATION MODULE, SPARE PART	2.32	
032F8030	ICFE 20 REPAIR KIT, SPARE PART <sup>1)</sup>	0.13	
027L1257	ICFE 20 SOLENOID MODULE, SPARE PART	0.59	
027L1270	ICFE 20H SOLENOID MODULE, SPARE PART	1.48	
027L2257	ICFE 25-40 SOLENOID MODULE, SPARE PART	2.05	
027L1260	ICF0 20 MANUAL OPENER MODULE, SPARE PART	0.65	
027H1186	ICM 20 A33 FUNCTION MODULE	1.28	
027H1180	ICM 20 A FUNCTION MODULE	1.31	
027H1194	ICM 20 B66 FUNCTION MODULE	1.31	
027H1181	ICM 20 B FUNCTION MODULE	1.31	
027H1182	ICM 20 C FUNCTION MODULE	1.31	
027H2180	ICM 25A FUNCTION MODULE	1.79	
027H2181	ICM 25B FUNCTION MODULE	1.85	
027H1190	SEAT FOR ICF20 BODY (ICM20-A33/A/B/C Service kit)	0.03	
027L1259	ICFB 20 BLIND MODULE, SPARE PART	0.52	
027L2259	ICFB 25-40 BLIND MODULE, SPARE PART	1.14	
027L2263	ICFW 25-40 1" SOC WELDING MODULE	1.40	
027L1269	SIGHT GLASS 3/8-18 NPT	0.10	
027L1261	ICF 20 GASKETS, SPARE PART KIT	0.04	
027L2260	ICF25-40 GASKETS, SPARE PART KIT	0.02	
027L1306	YELLOW CAP - ICF20	0.09	
027L1308	YELLOW CAP - ICFR25-40 REG 25-65	0.22	
148B4075	RED CAP - ICF20	0.09	
148B4076	RED CAP - ICFR25-40 REG 25-65	0.09	

~ <sup>1)</sup> ICF20 gasket kit 027L1261 to be purchased also (contains 6 x module to body gaskets)

~ <sup>2)</sup> Pleated 250u insert from FIA product range

**Note:** ICFS20 / ICFR20 / ICFN20 packing gland is the same as the SVA15-20  
 ICF25-40 / ICFR25-40 / ICFN25-40 packing gland is the same as the SVA25-40

**SPARE PARTS**



**PM, PML, PMC, PMLX, PMFL, PMFH, MEV, MRV- Control Valves**

**Inspection Kits-**  
 \* Contains all gaskets, O-rings and aluminium rings for one valve size.

Code	Description	Approx Weight	\$
027F3075	Inspection kit PM5-25/MEV-PMF80	0.05	
027F3076	Inspection kit PM32/MEV-PMF125	0.08	
027F3077	Inspection kit PM40/MEV-PMF200	0.08	
027F3078	Inspection kit PM50/MEV-PMF300	0.09	
027F3079	Inspection set A - PM65	0.08	
027F3091	Inspection set A - PM80	0.19	
027F3092	Inspection set A - PM100	0.22	
027F3093	Inspection set A - PM125	0.24	

**PM, PML, PMLX, PMFL, PMFH, MEV, MRV- Control Valves**

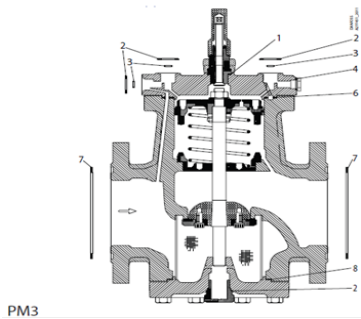
**Repair Kits-**  
 \* Contains all gaskets, O-rings and aluminium rings for one valve size, valve seat and piston ring.

Code	Description	Approx Weight	\$
027F3150	Repair Kit B - PM 5-25	0.07	
027F3152	Repair Kit B - PM32	0.10	
027F3153	Repair Kit B - PM40	0.12	
027F3154	Repair Kit B - PM50	0.14	
027F3155	Repair Kit B - PM65	0.16	
027F3156	Repair Kit B - PM80	0.27	
027F3157	Repair Kit B - PM100	0.34	
027F3158	Repair Kit B - PM125	0.46	
027F0555	Repair Kit B PMC 20 (5 to 20)		

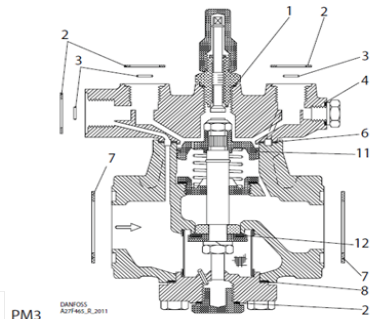
**Jacking Spindle is temporarily available as a separate code**

027F2130	MANUAL OPERATION PM 25-65 and ICS 25-80	0.21	
027F2134	MANUAL OPERATION PM 80-125	0.76	

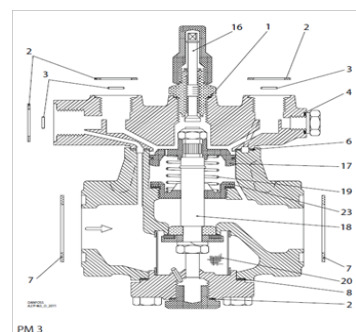
Example of PM3 Inspection Kit



Example of PM3 Repair Kit



Example of PM3 Overhaul Kit



**SPARE PARTS****PM, PML, PMLX, PMC, PMFL, PMFH - Control Valves****Overhaul Kits-**

**\* Contains all gaskets, O-rings and aluminium rings for one valve size and parts that could be damaged or worn out (i.e. piston, push rod, manual opening device, spring etc)**

Code	Description	Approx Weight	\$
027F3380	Overhaul kit C, PM5 (V. cone) <sup>(1)</sup>	0.46	
027F3381	Overhaul kit C, PM10 (V cone) <sup>(1)</sup>	0.47	
027F3382	Overhaul kit C, PM15 (V. cone) <sup>(1)</sup>	0.46	
027F3370	Overhaul kit C, PM20 (Std. cone)	0.78	
027F3371	Overhaul kit C, PM25 (Std. cone)	0.78	
027F3373	Overhaul kit C, PM32 (Std. cone)	0.78	
027F3374	Overhaul kit C, PM40 (Std. cone)	0.78	
027F3375	Overhaul kit C, PM50 (Std. cone)	0.78	
027F3376	Overhaul Kit C, PM65 (Std. cone)	2.59	
027F3377	Overhaul Kit C, PM80 (Std. cone)	5.59	
027F3378	Overhaul Kit C, PM100 (Std. cone)	7.34	
027F3379	Overhaul Kit C, PM125 (Std. cone)	14.19	
027F0566	Overhaul Kit PML 32	0.78	
027F0567	Overhaul Kit PML 40	0.78	
027F0568	Overhaul Kit PML 50	0.78	
027F0569	Overhaul Kit PML 65	0.78	
027F0560	Overhaul Kit PML 80	0.78	
027F0561	Overhaul Kit PML 100	0.78	
027F0562	Overhaul Kit PML 125	0.78	
027F0563	Overhaul Kit PMLX 32	1.12	
027F0568	Overhaul Kit PMLX 40	1.34	
027F0569	Overhaul Kit PMLX 50	2.00	
027F0570	Overhaul Kit PMLX 65	2.98	
027F0571	Overhaul Kit PMLX 80	5.48	
027F0572	Overhaul Kit PMLX 100	8.36	
027F0573	Overhaul Kit PMLX 125	13.82	
027F0770	Overhaul Kit for PMC1 and PMC3	0.78	
027F0754	Overhaul Kit for PMC1 and PMC3	0.78	
027F0755	Overhaul Kit for PMC1 and PMC3	0.78	
027F0756	Overhaul Kit for PMC1 and PMC3	0.78	
027F0611	Overhaul Kit PMFL 80-1	0.78	
027F0631	Overhaul Kit PMFL 80-2	0.78	
027F0632	Overhaul Kit PMFL 80-3	0.78	
027F0633	Overhaul Kit PMFL 80-4	0.78	
027F0634	Overhaul Kit PMFL 80-5	0.78	
027F0635	Overhaul Kit PMFL 80-6	0.78	
027F0636	Overhaul Kit PMFL 80-7	0.78	
027F0637	Overhaul Kit PMFL 125	0.78	
027F0638	Overhaul Kit PMFL 200	0.78	
027F0639	Overhaul Kit PMFL 200	0.78	
027F0663	Overhaul Kit PMFH 80-2	0.78	
027F0669	Overhaul Kit PMFH 80-3	0.78	
027F0676	Overhaul Kit for PMFH 80-4	0.78	
027F0677	Overhaul Kit for PMFH 80-5	0.78	
027F0678	Overhaul Kit for PMFH 80-6	0.78	
027F0700	Overhaul Kit for PMFH 80-7	0.78	
027F0704	Overhaul Kit for PMFH 125	0.78	
027F0705	Overhaul Kit for PMFH 200	0.78	
027F0709	Overhaul Kit for PMFH 300	0.78	
027F0710	Overhaul Kit for PMFH 500	0.78	

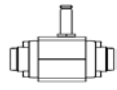
<sup>(1)</sup> V-cone is only available for these sizes and can be used in the standard PM valve or applications.



# SPARE PARTS



## AKVA - Expansion Valves

Code		Description	Approx Weight	\$
068F0526		ORIFICE AKVA 10-1	0.03	
068F0527		ORIFICE AKVA 10-2	0.03	
068F0528		ORIFICE AKVA 10-3	0.03	
068F0529		ORIFICE AKVA 10-4	0.03	
068F0530		ORIFICE AKVA 10-5	0.03	
068F0531		ORIFICE AKVA 10-6	0.03	
068F0532		ORIFICE AKVA 10-7	0.04	
068F0533		ORIFICE AKVA 10-8	0.03	
068F5261		ORIFICE KIT AKVA 15 (1/2/3/4)	0.02	
068F5270		ORIFICE KIT AKVA 20 (1/2/3)	0.15	
068F5271		ORIFICE KIT AKVA 20 (4/5)	0.12	
068F5265		PISTON KIT AKVA 15-1	0.04	
068F5266		PISTON KIT AKVA 15-2	0.04	
068F5267		PISTON KIT AKVA 15-3	0.05	
068F5268		PISTON KIT AKVA 15-4	0.04	
042H2040		PISTON KIT AKVA 20-1	0.23	
042H2041		PISTON KIT AKVA 20-2	0.23	
042H2042		PISTON KIT AKVA 20-3	0.22	
042H2043		PISTON KIT AKVA 20-4	0.24	
042H2044		PISTON KIT AKVA 20-5	0.24	
068F0540		AKVA 10-15 FILTER (includes tube gasket AKVA10/15/20) <sup>1)</sup>	0.01	
068F5045		ARMATURE SET AKVA 10/15/20	0.10	
068F5264		GASKET SET AKVA 15	0.15	
032F2327		GASKET SET AKVA 20 (EVRA32/40 Inspection kit)	0.02	

<sup>1)</sup> Sold in pack of 10 pieces ie. 1 x 068F0540 = 10 pcs of gaskets & filters


### How to Identify AKV/A20 valves size using Orifice plate and Piston cone dimensions:

Orifice set

Type	Code no.	Contents
AKV 20/ AKVA 20 - 0.6, 1, 2, 3	<b>068F5270</b>	Main orifice 8 mm Pilot orifice 1.2 mm 2 AL-gaskets O-ring
AKV 20/ AKVA 20 - 4, 5	<b>068F5271</b>	Main orifice 14 mm Pilot orifice 2.4 mm 2 AL-gaskets O-ring

D	Type
Ø 7.37	AKV/AKVA 20-0.6
Ø 6.65	AKV/AKVA 20-1
Ø 5.95	AKV/AKVA 20-2
Ø 3.30	AKV/AKVA 20-3
Ø 10.70	AKV/AKVA 20-4
Ø 4.60	AKV/AKVA 20-5


## TEA / TEAT / TEVA - Valves

Code		Description	Approx Weight	\$
068G2050		TEA/A ORIFICE ASSEMBLY 1 TR	0.09	
068G2051		TEA/T/A ORIFICE ASSEMBLY 2 TR	0.09	
068G2052		TEA/T/A ORIFICE ASSEMBLY 3 TR	0.08	
068G2053		TEA/T/A ORIFICE ASSEMBLY 5 TR	0.08	
068G2054		TEA/T/A ORIFICE ASSEMBLY 8 TR	0.08	
068G2055		TEA/T/A ORIFICE ASSEMBLY 12 TR	0.08	
068G2056		TEA/T/A ORIFICE ASSEMBLY 20 TR	0.08	
068G2057		TEA/T/A ORIFICE ASSEMBLY 33 TR	0.08	
068G2058		TEA/T/A ORIFICE ASSEMBLY 55 TR	0.08	
068G2059		TEA/T/A ORIFICE ASSEMBLY 85 TR	0.08	
068G0064		INSPECTION KIT TEA,TEAT,TEVA,TEAQ (seal kit)	0.78	
068G0037		TEVA 20/85 HEATER	0.09	
068G0026		TEVA WELD BUSH	0.44	
068G3255		TEVA 20/85 ELEMENT	0.90	
068G3250		TEA 20/85 ELEMENT -50 > 0C	0.69	
068G3252		TEA 20/85 ELEMENT -20 > 30C	0.68	
068G3262		TEAT 20/85 ELEMENT 35 > 65C	0.66	
068G3260		TEAT 20/85 ELEMENT 55 > 95C	0.63	
068G3261		TEAT 20/85 ELEMENT 90 > 130C	0.62	


**SPARE PARTS**





**MISC - AKS38 / AKS4100 / SV / KDC / QDV / HFI / SFA / SFV / ICAD / ORV**

Code	  Description 	Approx Weight	\$
027B2045	SV 1/3 SEAL KIT	0.06	
027B2055	SV 1 SERVICE KIT	0.02	
027B2056	SV 3 SERVICE KIT	0.02	
027B2070	SV 4-5-6 SEAL KIT	0.04	
027B2073	SV 4-5-6 SERVICE KIT	0.05	
027B2085	SV 4 ORIFICE ASSEMBLY Ø 3.0	0.02	
027B2086	SV 5 ORIFICE ASSEMBLY Ø 3.5	0.02	
027B2087	SV 6 ORIFICE ASSEMBLY Ø 4.0	0.02	
084H4542	AKS 4100/4100U CABLE SERVICE KIT (CABLE & C/W)	0.50	
084H4549	AKS 4100/4100U COAXIAL END TERMINATOR KIT	0.78	
084H4543	AKS 4100/4100U COAXIAL TUBE 680MM	0.67	
084H4541	AKS 4100/4100U CONVERTER (NO HMI/TOP ONLY)	0.50	
084H4548	AKS 4100/4100U HMI DISPLAY UNIT	0.70	
084H4545	AKS 4100 1"PROCESS CONN (CW/CABLE/1" PRO CON)	0.60	
084H4546	AKS 4100 3/4"PROCESS CONN (CW/CABLE/3/4" PRO CON)	1.00	
084H4547	AKS4100 & 41 ALU GASKET (ORDER IN LOTS OF 10)	0.70	
2453+092	QDV REPAIR KIT (OLD MODEL ONLY)	0.09	
148H3202	AKS 38 ELECTRICAL SWITCHBOX	0.86	
148H3203	AKS 38 FLOAT ASSEMBLY	0.47	
148H3200	AKS 38 REPAIR KIT (GASKETS & LOCKING RING)	0.06	
148G3055	KDC/GVD 80 Seal kit set	0.04	
148G3056	KDC/GVD 100 Seal kit set	0.10	
148G3057	KDC/GVD 125 Seal kit set	0.13	
148G3058	KDC/GVD150 Seal kit set	0.10	
2453+089	POV 40 Service Kit		
2453+090	POV 50 Service Kit		
2453+098	POV 80 Service Kit		
148G3662	HFI 050, complete insert & gaskets	1.61	
148G3663	HFI 060, complete insert & gaskets	1.61	
2453+094	REPAIR KIT HFI 40-70 (gaskets)	0.02	
148F3036	Repair kit for SFA 15	0.06	
2453+082	Repair kit for SFV 20	0.11	
2453+083	Repair kit for SFV 25	0.14	
148F3024	REPAIR-KIT FOR DSV 1	0.08	
148F3025	REPAIR-KIT FOR DSV 2	0.06	
148H3246	ORV DISMOUNTING KIT H1	0.10	
148H3247	ORV DISMOUNTING KIT H2	0.10	
148H3248	ORV DISMOUNTING KIT H3 (2 guide rings and 1 gasket)	0.02	
027H1207	ICAD600 Service Kit (wear ring, O-ring and grease)	0.02	
027H1208	ICAD900/1200 Service Kit (wear ring, O-ring and grease)	0.02	

**Backward Compatibility of SLV Products**

New SLV Flexline 	Size	Stop Valves SVA-S/L	Stop/check Valves SCA-X	Check Valves CHV-X	Regulating Valves REG-SA/SB	Filter FIA
Backward Compatibility	DN6					
	DN10					
	DN15-20					
	DN25-40					
	DN50					
	DN65					
	DN80					
	DN100					
	DN125					
	DN150					
DN200						
Existing SVA range		Stop Valves SVA-ST / HS	Stop/check Valves SCA	Check Valves CHV	Regulating Valves REG	Filter FIA

 Backward Compatible  
 Not Backward Compatible

\*\*\* The backwards compatibility in the above table refers to Series 3 back to series 2 only.  
 \*\*\* Series 3 bonnets can't be fitted to series 1 bodies with the bevelled body recess for the thick O-ring.

**Control & Solenoid Valve KV X-Reference**



EVRA/T/S Valves		ICF Modules		PM Valves		ICS Valves		ICM Valves	
EVRA Sizes	Kv Values	ICF Modules	Kv Values	PM Sizes	Kv Values	ICS sizes	Kv Values	ICM sizes	Kv Values
		ICM20A-33	0.2					ICM20A-33	0.2
EVRA/S 3	0.23	ICM20-A	0.6					ICM20-A	0.6
EVRA/T/S 10	1.5	ICM20-B66	1.6	PM5	1.6			ICM20-B66	1.6
		ICM20-B	2.4			ICS25-5	1.7	ICM20-B	2.4
EVRA/T/S 15	2.7	ICFR20A	3	PM10	3				
		ICFE20	3.93			ICS25-10	3.5		
EVRA/T/S 20	4.5	ICFR20B	4	PM15	4			ICM20-C	4.6
		ICM20-C	4.6						
		ICM25-A	6			ICS25-15	6	ICM25-A	6
		ICFR25A	6						
				PM20	7				
						ICS25-20	8		
EVRA 25	10	ICFE20H	9.84					ICM32-A	9
		ICFR25B	12	PM25	11.5	ICS25-25	11.5	ICM25-B	12
								ICM40-A	15
EVRA 32	16	ICFE25	17			ICS32	17	ICM32-B	17
				PM32	17.2				
								ICM50-A	23
EVRA 40	25								
						ICS40	27	ICM40-B	26
				PM40	30				
								ICM65-A	35
								ICM50-B	40
				PM50	43	ICS50	44		
						ICS65	70	ICM65-B	70
				PM65	79				
						ICS80	85		
				PM80	141	ICS100	142	ICM100	142
				PM100	205	ICS125	207	ICM125	223
				PM125	329	ICS150	354	ICM150	370

**What is the Kv Value?**

Kv value is the metric measure for the flow of a valve.

It is defined as:

The volume flow in cubic metres per hour of water at a temperature of between 5° and 40° celsius with a pressure drop across the valve of 1 bar.

**Control & Solenoid Valve KV X-Reference**



PML Valves		PMLX Valves		GPLX Valves		ICLX Valves		REG Valves	
PML Sizes	Kv Values	PMLX Sizes	Kv Values	GPLX Sizes	Kv Values	ICLX Sizes	Kv Values	REG Sizes	Kv Values
								REG #1	0.17
								REG10-SA	0.2
								REG #2	0.33
								REG10-SB	0.6
								REG #3	0.66
								REG15-20 SA	1.5
								REG #4	1.6
								REG #5	2.3
								REG #6	4.5
								REG15-20 SB	5
								REG #7	6.8
								REG25-40 SA	7
								REG #8	11
								REG #9	17
								REG25-40 SB	20
		PMLX 32	22.4			ICLX 32	22	REG #10	23
PML 32	25.5								
		PMLX 40	29.4			ICLX 40	29		
PML 40	34								
								REG #11	45
								REG50 SB	45
		PMLX 50	47.8			ICLX 50	47		
PML 50	50								
		PMLX 65	80.3					REG65 SB	80
PML 65	81					ICLX 65 & 80	83	REG #12	82
				GPLX80	133				
		PMLX 80	170			ICLX 100	151		
PML 80	188								
				GPLX100	223				
		PMLX 100	242			ICLX 125	225		
PML 100	269								
				GPLX125	370				
		PMLX 125	385			ICLX 150	390		
PML 125	427								
				GPLX150	566				

**What is the Kv Value?**

**Kv value is the metric measure for the flow of a valve.**

**It is defined as:**

**The volume flow in cubic metres per hour of water at a temperature of between 5° and 40° celsius with a pressure drop across the valve of 1 bar.**

# Driers - Replaceable Core



## Ammonia (R717) Replaceable Core Filter Driers

\$

	Description	Conn. Size FPT	No. of Cores	Core Part Number	Refrigerant Flow Capacity Tons @ 1 psi " P.
108353	C413P	3/8"			72
108355	C484P	1/2"	1	RC-4864	72
108358	C966P	3/4"	2	RC-4864	189
108361	C1448P	1"	3	RC-4864	289
108364	C19212P	1 1/2"	4	RC-4864	476
108367	C40016P	2"	4	RC-10098	696

Note : maximum rated pressure of 500 psi

## Replaceable Cores to suit above Refillable Shells



Description	
207713	RC-4864 Activated core, standard 4" diameter
207712	RC-10098 Activated core, standard 6" diameter

# WATER SAMPLING KIT



\$

ANH-MS	Sampling Flask
ANH-AS	Sampling Stand Kit

Anhydrator pricing is available. Contact your local Patton Branch

# ICE MACHINES



## GEA - Geneqglace Flake Ice Machines

### FLAKE ICE GENERATOR- (Head Only) indent items



#### Features :

- Stationary and insulated cylinder
- Few moving parts liable to wear and tear
- Optimum thermal exchange
- CE and ASME compliant

	Ice Production Cap (Kg/Day)	Water Conditions	Refrigerant	\$
F200 ABF	4500 to 6500	Fresh water entering +15°C	R404a, R717	
F200 SBF	4500 to 6500	Fresh water entering +15°C	R404a, R717	
F250 ABF	6500 to 10000	Fresh water entering +15°C	R404a, R717	
F250 SBF	6500 to 10000	Fresh water entering +15°C	R404a, R717	
F600 ABF	10000 to 14000	Fresh water entering +15°C	R404a, R717	
F600 SBF	10000 to 14000	Fresh water entering +15°C	R404a, R717	
F800 ABF	15000 to 20000	Fresh water entering +15°C	R404a, R717	
F800 SBF	15000 to 20000	Fresh water entering +15°C	R404a, R717	
F900 ABF	20000 to 30000	Fresh water entering +15°C	R404a, R717	
F900 SBF	20000 to 30000	Fresh water entering +15°C	R404a, R717	
F800-2 ABF	30000 to 36000	Fresh water entering +15°C	R404a, R717	
F2000 ABF	30000 to 50000	Fresh water entering +15°C	R404a, R717	
F2000 SBF	30000 to 50000	Fresh water entering +15°C	R404a, R717	

**ABF : With Flood Bottle.** For use with high pressure liquid, such as a TX valve system.

**SBF : Without Flood Bottle.** For use with pumped circulation system.

# LEAK DETECTION



**IL**



MISS

## LEAK DETECTION

\$



MILIT  
FSBFB33041  
MANA90712

Sulphur Leak Detection Sticks (100/Pack)  
Litmus Paper (60 strips per book)  
Phenolphthalein Test Paper (1-14) (4 x 5 metre reels)  
Phenolphthalein Paper

# LIQUID INDICATORS



## LIQUID INDICATORS

\$



1100  
1100R

Level Eye Assembly - Clear Lens  
Level Eye Assembly - Reflex Lens



1101  
1101R

Replacement Lens - Clear  
Replacement Lens - Reflex

1103

Gasket - Neoprene

1103T

Gasket - Teflon

1104

Gasket - Vulcanised Fibre

1105/1106

Frost Shieldc/w O'Ring - Neoprene for Frost Shield

# LIQUID INDICATORS



## LIQUID INDICATORS

\$



FS-2-1/2

Frost Shield for LI-49 & LI-50 Indicator



LI-48A-1/2

1/2" FPT Double Port Liquid Indicator (cap type)

LI-48A-3/4

3/4" FPT Double Port Liquid Indicator (cap type)

LI-48A-1

1" FPT Double Port Liquid Indicator (cap type)



LI-50-2W

Reflex Lens Liquid Indicator 2-3/4" long

LI-50-4W

Reflex Lens Liquid Indicator 4-1/2" long

SG-1004

Sightglass - Clear 1/2"MPT

SG-1006

Sightglass - Clear 3/4"MPT

SG-1008

Sightglass - Clear 1"MPT

SG-1010

Sightglass - Clear 1.1/4"MPT

SG-1104

Sightglass - Reflex 1/2"MPT

SG-1106

Sightglass - Reflex 3/4"MPT

SG-1108

Sightglass - Reflex 1"MPT

SG-1110

Sightglass - Reflex 1.1/4"MPT

# LIQUID LEVEL FLOAT SWITCHES



## LIQUID LEVEL FLOAT SWITCHES

\$

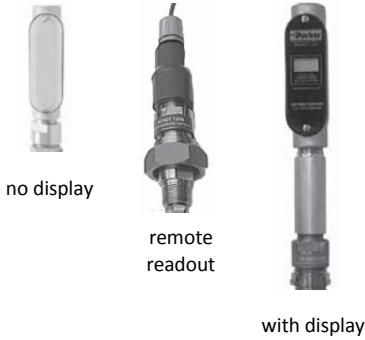


Suitable for ammonia, R22, R134A, R507 & other common refrigerants  
Stainless steel float chamber assembly  
UV resistant & transparent switch housing with optional protective cover  
Magneticall actuated switch (single pole double throw)  
Hermetically sealed switch  
Switch assemblies are compatible with R/S LL, LLS & LLA models  
Moisure ingress ion eliminated; Heater is not required in low temperature applications

109348  
208642  
208644

LLSS - Side, side & bottom connections standard with QD connection  
Cover Switch  
Replacement Refrigerant Float Switch

# LIQUID LEVEL PROBES



no display

remote readout

with display

## LIQUID LEVEL TRANSDUCER PROBES

- Stand-Alone probes with 4-20mA return signals or compatible with R/S Type PLLC Controller
- Available with or without digital readout
- Optional "Riser" accommodates column insulation
- Standard Probe lengths: 2, 3, 4, 5, 6, 7, 8, 10 & 12 feet
- Fully "potted" circuit board
- 3/4" Pipe thread connection
- Standpipe top cap available for 3" or 4" diameter column
- 12 to 36V DC power supply required (4-20mA return signal)
- Remote Readout – Maximum 6 foot cable (shielded)
- Water resistant construction

### To Order

Please specify:

DepthTracker, length, with or without digital readout, or remote readout. Also designate optional pipe cap and riser if required.

\$

# LIQUID LEVEL CONTROL SENSOR



209366

- Suitable for ammonia & water/brine (CO2, halocarbon refrigerant types available on request).
- Stand alone microprocessor sensor with controller built in for automatic liquid management.
- Easy set up & change of timer & alarm settings.
- "Service Friendly" Split design for easy mounting & maintenance without depressurization
- Unaffected by foam, splashing & coating.
- Resists high pressures & temperatures.
- LED indication for liquid, alarm & power.
- Savings on installation, cost & time.

HBLCRIP LEVEL SWITCH ASM LOW TEMP 3/4NPT

\$

# LIQUID LEVEL SWITCHES



Pictures Above: - HBSC2 (top), HBSR (middle), HBS01 (bottom)

209340  
209341  
209342  
209343  
209344  
209345

## LIQUID LEVEL SWITCHES (HBSR, HBS01 & HBSC2)

- Suitable for oil, ammonia, CO2, halocarbon refrigerants & brine
- "Plug & Play" no calibration required
- "Service Friendly" Split design for easy mounting & maintenance without depressurization
- Unaffected by foam, splashing & coating
- Resists high pressures & temperatures
- LED indication when liquid is present.
- Output functions available in normally open (NO) or normally closed (NC)

HBS01NO 24VDC, 1/2NPT Oil Level Switch (Normally open)  
HBS01NC 24VDC, 1/2NPT Oil Level Switch (Normally closed)  
HBS01NO 24VDC, 3/4NPT Oil Level Switch (Normally open)  
HBS01NC 24VDC, 3/4NPT Oil Level Switch (Normally closed)  
HBSR 24VDC, 3/4NPT Refrigerant Switch (NH3, HFC, Brine) (Normally Open)  
HBSC2 24VDC, 3/4NPT Liquid CO2 Switch (Normally Open)

\$

# LIQUID LEVEL TRANSMITTER



209329

## LIQUID LEVEL TRANSMITTER (HBLT-A1)

- Suitable for oil, ammonia, CO2, halocarbon refrigerants & brine
- "Plug & Play" no calibration required when installed on ammonia systems
- "Service Friendly" Electronic head & probe can be separated without emptying the vessel.
- "Improved Calibration" Range/signal output can be adapted to suit the application
- Optional LED bargraph for indication of liquid level
- Dampening of output signal available

HBLT-A1 LEVEL TRANSMITTER

\$



# LUBRICANT



## Xaerus Ammonia Refrigeration Lubricant

### Product Description

XR 208-68 is a high performance ammonia compressor lubricant based on severely hydrocracked, isodewaxed base oil.

XR 208-68 is formulated with an advanced additive system developed for effectiveness in an aggressive ammonia environment and includes a seal conditioning additive to prevent seal leakage in older systems being converted to this lubricant.

This product displays excellent thermal, oxidative & hydrolytic stability allowing for extended drain intervals.

The stable viscosity & low pour point make the product very effective in applications where temperature extremes are required.

XR208-68 provides very low foaming performance in ammonia systems.

### Suitable for both Reciprocating and Screw Compressors

#### Description

\$

XR208-68

Xaerus Lubricant - 208 litre Drum

Features	Benefits
Chemical Stability in the presence of ammonia	Prevents sludge formation Increased evaporator efficiency Less "top up" oil required Minimise maintenance cost Extended Drain Intervals
Seal Conditioning Formulation	Minimise oil leaks
Thermal & Oxidative Stability	Minimal vapor phase oil carryover Longer oil life Minimise maintenance cost
Low dissolved water content	Maximise bearing & equipment life Better gas/oil separation in coalescers Decreases potential emulsions
High Viscosity Index & Low Pour Point	Better Oil Return from evaporators Less wear at start up Ability to flow at low temperatures More protection at high operating temperatures

Typical Properties		
Criteria	Value	Method
Viscosity cSt @ 40°C	65.2	ASTM D-445
Viscosity cSt @ 100°C	8.4	ASTM D-445
Viscosity Index	99.0	ASTM D2270
Acid Value, mg KOH/gm	<0.05	ASTM D-974
Moisture, ppm	<50	ASTM D-1744
Specific Gravity @ 60°F/15.6°C	0.873	ASTM D-4052
Density @ 60°F/15.6°C, gm/litre	726	ASTM D-4052
Flash Point, °C	244	ASTM D-92
Pour Point, °C	-42	ASTM D-97

# PURGERS



IP

## Armstrong XR-1500 Series Purgers



**Features :**

- **Mechanical Purgers**  
The mechanical version incorporates an air vent & inverted Bucket mechanism for non-electric manual operation.
- **Electric Single-point Purgers**  
This version incorporates an inverted bucket & electronic float switch assembly. The electronic float switch serves two functions:-
  - 1) To tell the controller if there is a pocket of air at the top of the purger
  - 2) To tell the controller the temperature of the refrigerant inside the body
 The two functions ensure that the purger is not discharging non-condensable gases at a temperature too high for efficient & cost effective purging
- **Automatic Multi-point Purgers**  
The completely automatic electronic multi-point purger uses a float switch to tell a PLC control what is happening in the purger body at all times. Depending on the refrigerant level in the purger body the float switch has the controller activate the appropriate solenoid valve to maintain the liquid level & temperature within the purger body. The PLC control allows totally unmanned, automatic control & operation of the purge system.

Model	Purger Type	# of Purge Points	Voltage	\$
XR-1500	Mechanical Purger	Manual operated	N/A	
XR-1501	Electric Single-Point Purger	1	240VAC, 50Hz	
XR-1502	Automatic Multi-point Purger	2	240VAC, 50Hz	
XR-1510	Automatic Multi-point Purger	10	240VAC, 50Hz	
XR-1518	Automatic Multi-point Purger	18	240VAC, 50Hz	
XR-1526	Automatic Multi-point Purger	26	240VAC, 50Hz	
XR-1534	Automatic Multi-point Purger	34	240VAC, 50Hz	
Other Voltages are available on request				

# PURGERS



## Parker Rapid Auto Purger Model V200

The Model V200 Auto Purger is a unique energy saving device designed to efficiently remove foreign non-condensables from ammonia refrigeration systems.

**Features :**

- Small Compact Design.
- Propriety microprocessor control for all sensing & control functions.
- Factory calibrated ( plug & play).
- Automatically adjusts vent pressures based on system conditions.
- Energy saving sleep mode will activate with the lack of non-condensables.
- Electronic Level, temperature & pressure monitoring for improved performance.
- Records both number of purge cycles & time for each purge point during a 7 day period.
- Fully factory wired for reducing installation time.
- Materials of construction include stainless steel, aluminum & zinc or chromate plated components resulting in a nearly 100% corrosion free assembly.



Part Number	Purger Type	# of Purge Points	Voltage	\$
109223	Fully Automated	4	240VAC, 50Hz	
109270	Fully Automated	8	240VAC, 50Hz	
109272	Fully Automated	12	240VAC, 50Hz	
109274	Fully Automated	16	240VAC, 50Hz	
109224	Fully Automated	20	240VAC, 50Hz	
Other Voltages are available on request				

# PRESSURE GAUGES



IP \$



## PRESSURE GAUGES

Flutter dampening design  
Stainless steel case  
1/4" NPT bottom connection

	Refrigerant	Scale		Size
		Minimum	Maximum	
309385	R717 (Ammonia)	30" Vac	10.5 Bar	63mm
309386	R717 (Ammonia)	30" Vac	25 Bar	63mm
309401	R717 (Ammonia)	30" Vac	10.5 Bar	89mm
309402	R717 (Ammonia)	30" Vac	25 Bar	89mm
<b>Liquid Filled Gauges</b>				
311895	R717 (Ammonia)	30" Vac	10.5 Bar	63mm
311896	R717 (Ammonia)	30" Vac	25 Bar	63mm

# STRAINERS



IS \$



	Strainer - Straight - Butt Weld
D57815	1/2" BW
D57816	3/4" BW
D57817	1" BW
D57818	1.1/4" BW
D57819	1.1/2" BW
D57820	2" BW
D57821	2.1/2" BW
D57822	3" BW
D57823	4" BW



	Strainer - Angle - Butt Weld
D57879	1/2" BW
D57880	3/4" BW
D57881	1" BW
D57882	1.1/4" BW
D57883	1.1/2" BW
D57884	2" BW
D57885	2.1/2" BW
D57886	3" BW
D57887	4" BW



	Strainer - Straight - Socket Weld Flanged
D57896	c/w SW Flanges, nuts, bolts & gaskets
D57897	1/2" SW
D57898	3/4" SW
D57899	1" SW
D57900	1.1/4" SW
D57901	1.1/2" SW
D57902	2" SW
D57903	2.1/2" SW
D57904	3" SW
D57904	4" SW

# STRAINERS



IS \$

c/w nuts, bolts & gaskets, less flanges



		Used on Port Size		Flange Connections available	Wt (Kg)
		(mm)	(inches)		
106422	RSF-13	13	1/2"	SW, FPT, WN	0.9
100007	RSF-25	20 & 25	3/4" & 1"	SW, FPT, WN	3.2
100008	RSF-32	32	1-1/4"	SW, FPT, WN	6.8
100009	RSF-50	50	2"	SW, FPT, WN	15.0
100010	RSF-65	65	2-1/2"	SW, FPT, WN	24.0
100011	RSF-75	75	3"	SW, FPT, WN	24.0
100012	RSF-100	100	4"	SW, FPT, WN	52.0

• Please refer to Page I55 for the range of flanges

# VALVES - BALL DRAIN VALVES



IV



## BALL DRAIN VALVES

These Stainless Steel Ball Valves have a "Deadman" spring handle.

- Spring return close
- Ball is relief ported
- RFPTE stuffing box ring
- All components of lever are stainless steel
- Nitride corrosion protection
- Blow-out proof stem design
- Adjustable packing gland

206551  
206552  
206553

Liquid drain ball valve SS  
Liquid drain ball valve SS  
Liquid drain ball valve SS

Connections	
Inlet	Outlet
1/2" FPT	1/2" FPT
3/4" FPT	3/4" FPT
1" FPT	1" FPT

\$

# VALVES - CHECK



IV



## CHECK VALVES

c/w nuts, bolts, gaskets & flanges

D57791  
D57792  
D57793  
D57794  
D57795  
D57796  
D57797  
D57798  
D57799

Port Size (mm)	(inches)	Flanges	
		Connections in inches	
13	1/2"	1/2" SW	
20	3/4"	3/4" SW	
25	1"	1" SW	
32	1-1/4"	1-1/4" SW	
40	1-1/2"	1-1/2" SW	
50	2"	2" SW	
65	2-1/2"	2-1/2" SW	
75	3"	3" SW	
100	4"	4" SW	

\$

# VALVES - CHECK



IV



## CHECK VALVES

c/w nuts, bolts & gaskets, less flanges

101047  
101048  
101049  
101050  
101051  
101052  
101053  
101054

CK4A-2  
CK4A-3  
CK4A-4  
CK4A-6  
CK4A-8  
CK4A-9  
CK4A-0  
CK4A-16

Port Size (mm)	(inches)	Flanges		Wt (Kg)
		Connections in inches		
13	1/2"	1/2" SW	3/8", 3/4"	0.9
20	3/4"	3/4" SW	1", 1-1/4"	2.3
25	1"	1" SW	3/4", 1-1/4"	2.3
32	1-1/4"	1-1/4" SW	1-1/2"	3.0
50	2"	2" SW	1-1/2"	5.9
65	2-1/2"	2-1/2" SW		10.0
75	3"	3" SW		12.0
100	4"	4" SW		24.0

Connections in inches		Wt (Kg)
Ex Stock	Indent	
1/2" SW	3/8", 3/4"	0.9
3/4" SW	1", 1-1/4"	2.3
1" SW	3/4", 1-1/4"	2.3
1-1/4" SW	1-1/2"	3.0
2" SW	1-1/2"	5.9
2-1/2" SW		10.0
3" SW		12.0
4" SW		24.0

\$

Please refer to Page I55 for the range of flanges

# VALVES - ELECTRONIC CONTROL



IV



## MVS ELECTRONIC INDUSTRIAL CONTROL VALVES

- Suitable for liquid, expansion, or vapour service
- NEMA 3R (IP65) electrical construction
- Hermetically sealed
- Outfitted with position feedback
- Fast response (0-100% Open < 1 sec.)
- On board diagnostics
- Replaceable capacity cartridges
- Corrosion resistant construction
- Spring return offers tight shut-off in the event of power failure



110550  
110551  
110552  
110553  
110554

MVS661.25-0.16  
MVS661.25-0.4  
MVS661.25-0.1.0  
MVS661.25-2.5  
MVS661.25-6.3

Type	Port Size		Connection	Wt (Kg)
	(mm)	(inches)		
	9.5	3/8	1"BW	3.6
	13	1/2	1"BW	10.0
	20	3/4	1"BW	10.0
	25	1	1"BW	14
	32	1.1/4	1"BW	14

Connections	
Inlet	Outlet
1" BW	1" BW
1" BW	1" BW
1" BW	1" BW
1" BW	1" BW
1" BW	1" BW

\$

### Accessories

111529 HBLT-C1 Controller  
111530 HBLT-C1-ENC Controller with Enclosure and Transformer

# VALVES - HAND EXPANSION

(available on Indent)

# IV

## HAND EXPANSION VALVES



Hand Expansion Valves are available on Indent from

- Armstrong
- Refrigeration Parker - Refrigeration Specialties Div
- Herl
- Henry

Contact your nearest patton Branch for further details.

# VALVES - THERMOSTATIC EXPANSION

(available on Indent)



## THERMOSTATIC EXPANSION VALVES

Thermostatic Expansion Valves are available on Indent from Sporlan Valve Company

Contact your nearest patton Branch for further details.

# VALVES - FLANGES



## FLANGE SETS

Flanges exclude gaskets, nuts & bolts

\$



Model #	Type	Port Size (mm)	Nominal Pipe Size (mm)	Nominal Pipe Size (inch)
200006	FK,013 SW 1/2"	SW 13	13	1/2"
200020	FK,025 SW 3/4"	SW 25	20	3/4"
200021	FK,025 SW 1"	SW 25	25	1"
200032	FK,032 SW 1-1/4"	SW 32	32	1-1/4"
200041	FK,050 SW 1-1/2"	SW 50	40	1-1/2"
200042	FK,050 SW 2"	SW 50	50	2"
200049	FK,065 SW 2-1/2"	SW 65	65	2-1/2"
200054	FK,075 SW 3"	SW 75	75	3"
200063	FK,100 SW 4"	SW 100	100	4"
200002	FK,013 FPT 1/2"	FPT 13	13	1/2"
200016	FK,025 FPT 3/4"	FPT 25	20	3/4"
200017	FK,025 FPT 1"	FPT 25	25	1"
200030	FK,032 FPT 1-1/4"	FPT 32	32	1-1/4"
200039	FK,050 FPT 1-1/2"	FPT 50	40	1-1/2"
200040	FK,050 FPT 2"	FPT 50	50	2"

## FEMALE ADAPTER RINGS

Complete with 2gaskets for joining 2 male flanges

200111	FAR-13	Female Adapter Ring 013
200112	FAR-25	Female Adapter Ring 025
200113	FAR32	Female Adapter Ring 032
200114	FAR50	Female Adapter Ring 050
200116	FAR65	Female Adapter Ring 065
200115	FAR75	Female Adapter Ring 075

## FLANGE UNION KITS

206213	Flange Size 013
206214	Flange Size 025
206215	Flange Size 032
206216	Flange Size 050
206217	Flange Size 065
206218	Flange Size 075
206219	Flange Size 100

# VALVES - GAUGE

IV

## GAUGE VALVES (receiver valves)

Packed Angle, Non backseating



	Connections		
	Inlet	Outlet	
7771	1/4" MPT	1/4"FPT	Steel body
7773	3/8"MPT	3/8"FPT	Steel body
7775	1/2"MPT	1/2"FPT	Steel body

\$

## GAUGE VALVES (receiver valves)



107015	1/4" MPT	1/4" FPT	V2AM00NP Gauge valve
107019	1/4" MPT	1/4" FPT	V2AM10NP Gauge valve with extension on inlet

## TRANSDUCER VALVES

9490	1/4"MPT	1/4"FPT x 2	Transducer valve (Steel)
9290	1/4"MPT	1/4"FPT x 2	Transducer valve (Brass)

# VALVES - HAND SHUT OFF



IV

## HAND SHUT-OFF VALVES

c/w Handwheel

		Port Size		Flanges		Wt (Kg)	\$
		(mm)	(inches)	Connections in inches	Also available		
		ANGLE TYPE		Standard (stock)			
107126	HSV13FPTA	13	1/2"	FPT		1.1	
107129	HSV20FPTA	20	3/4"	FPT		1.8	
107132	HSV25FPTA	25	1"	FPT		1.8	
	107147	HSV13SWA	13	1/2"	SW	BW	1.1
	107150	HSV20SWA	20	3/4"	SW	BW	1.8
	107153	HSV25SWA	25	1"	SW	BW	1.8
	107156	HSV32SWA	32	1-1/4"	SW	BW	4.2
	107159	HSV40SWA	40	1-1/2"	SW	BW	4.5
	107162	HSV50SWA	50	2"	SW	BW	6.5
	107183	HSV65WNA	65	2-1/2"	WN	BW	9.5
	107186	HSV75WNA	75	3"	WN	BW	15.0
	107189	HSV100WNA	100	4"	WN	BW	18.0

## STRAIGHT TYPE (available on Indent)

107125	HSV13FPTS	13	1/2"	FPT		1.1	
107128	HSV20FPTS	20	3/4"	FPT		1.8	
107131	HSV25FPTS	25	1"	FPT		1.8	
	107146	HSV13SWS	13	1/2"	SW	BW	1.1
	107149	HSV20SWS	20	3/4"	SW	BW	1.8
	107152	HSV25SWS	25	1"	SW	BW	1.8
	107155	HSV32SWS	32	1-1/4"	SW	BW	4.2
	107158	HSV40SWS	40	1-1/2"	SW	BW	4.5
	107161	HSV50SWS	50	2"	SW	BW	6.5
	107164	HSV65SWS	65	2-1/2"	WN	BW	9.5
	107167	HSV75WNY	75	3"	WN	BW	15.0
	107170	HSV100WNY	100	4"	WN	BW	22.0



# VALVES - HAND SHUT OFF



IV

\$



- D57755
- D57756
- D57757
- D57758
- D57759
- D57760
- D57761
- D57762
- D57763

**Stop Valve - Angle - Butt Weld c/w Handwheel**

- 1/2" BW
- 3/4" BW
- 1" BW
- 1.1/4" BW
- 1.1/2" BW
- 2" BW
- 2.1/2" BW
- 3" BW
- 4" BW



- D57768
- D57769
- D57770
- D57771
- D57772
- D57773
- D57774
- D57775
- D57776

**Stop Valve - Straight - Butt Weld c/w Handwheel**

- 1/2" BW
- 3/4" BW
- 1" BW
- 1.1/4" BW
- 1.1/2" BW
- 2" BW
- 2.1/2" BW
- 3" BW
- 4" BW



- D57324
- D57235
- D57325
- D57324
- D57235
- D57325

**Stop Valve - Angle - Socket Weld c/w Handwheel**

- 1/2" SW
- 3/4" SW
- 1" SW
- 1.1/4" SW
- 1.1/2" SW
- 2" SW



- D58689
- D58690
- D58691
- D58692
- D58693
- D58694

**Stop Valve - Straight - Socket Weld c/w Handwheel**

- 1/2" SW
- 3/4" SW
- 1" SW
- 1.1/4" SW
- 1.1/2" SW
- 2" SW

# VALVES - STOP CHECK



IV

\$



- D59872
- D59873
- D59874
- D59875
- D59876
- D59877
- D59878
- D59879
- D59880

**Stop Check Valve - Angle - Butt Weld c/w Cap**

- 1/2" BW
- 3/4" BW
- 1" BW
- 1.1/4" BW
- 1.1/2" BW
- 2" BW
- 2.1/2" BW
- 3" BW
- 4" BW



- D57806
- D57807
- D57808
- D57809
- D57810
- D57811
- D57812
- D57813
- D57814

**Stop Check Valve - Straight - Butt Weld c/w Cap**

- 1/2" BW
- 3/4" BW
- 1" BW
- 1.1/4" BW
- 1.1/2" BW
- 2" BW
- 2.1/2" BW
- 3" BW
- 4" BW



- D59866
- D59867
- D59868
- D59869
- D59870
- D59871

**Stop Check Valve - Angle - Socket Weld c/w Cap**

- 1/2" SW
- 3/4" SW
- 1" SW
- 1.1/4" SW
- 1.1/2" SW
- 2" SW



- D57800
- D57801
- D57802
- D57803
- D57804
- D57805

**Stop Check Valve - Straight - Socket Weld c/w Cap**

- 1/2" SW
- 3/4" SW
- 1" SW
- 1.1/4" SW
- 1.1/2" SW
- 2" SW



# VALVES - PRESSURE REGULATORS



## EVAPORATOR PRESSURE REGULATORS - ADAPTOMODE

c/w nuts, bolts & gaskets, less flanges

Standard Range A (0 - 150 psig)



			Port Size		Flanges		Wt (Kg)	\$
			(mm)	(inches)	Connections in inches			
					FPT, SW, WN			
					Standard (stock)	Also available		
100089	A2BK-A	13	1/2"	1/2"SW	3/4"	3.6		
100104	A4A-20	20	3/4"	3/4" SW	1",1-1/4"	10.0		
100105	A4A-25	25	1"	1" SW	3/4",1-1/4"	10.0		
100106	A4A-32	32	1-1/4"	1-1/4" SW	1-1/2"	14		
100262	A4AL-32	32	1-1/4"	1-1/4" SW	1-1/2"	14		
100107	A4A-40	40	1-5/8"	1-1/2" SW	2"	31		
100108	A4A-50	50	2"	2"	1-1/2"	31		
100109	A4A-65	65	2-1/2"	2-1/2"	3"	39		
100110	A4A-75	75	3"	3"		54		
100111	A4A-100	100	4"	4"		80		

Please refer to Page I55 for the range of flanges

# VALVES - PRESSURE RELIEF



## PRESSURE RELIEF VALVES

Includes Test Certificate with Valve

Suitable R717, R404a, R22, R134a & other common refrigerants



	Connections		Pressure	
	Inlet	Outlet	(psi)	(Kpa)
5340N1/2-250	1/2"MPT	3/4"FPT	250	1722
5600N1/2-150	1/2"MPT	3/4"FPT	150	1033
5600N1/2-250	1/2"MPT	3/4"FPT	250	1722
5601N1/2-150	1/2"FPT	1"FPT	150	1033
5601N1/2-250	1/2"FPT	1"FPT	250	1722
5601N1/2-300	1/2"FPT	1"FPT	300	2066
5602N3/4-150	3/4"FPT	1"FPT	150	1033
5602N3/4-250	3/4"FPT	1"FPT	250	1722
5602N3/4-300	3/4"FPT	1"FPT	300	2066
5603N1-150	1"FPT	1-1/4"FPT	150	1033
5603N1-200	1"FPT	1-1/4"FPT	200	1378
5603N1-250	1"FPT	1-1/4"FPT	250	1722
5603N1-300	1"FPT	1-1/4"FPT	300	2066
56041-1/4-150	1-1/4"FPT	1-1/2"FPT	150	1033
56041-1/4-250	1-1/4"FPT	1-1/2"FPT	250	1722

## THREE WAY DUAL SHUT OFF VALVES



8021A	1/2"NPTE	1/2"NPTE
8022A	3/4"NPTE	3/4"NPTE
8024	1"NPTE	1"NPTE
8025	1-1/4"NPTE	1-1/4"NPTE

## PRESSURE RELIEF VALVE MANIFOLDS



### M1 THREE WAY MANIFOLDS



	Connections	
	Inlet	Outlet
107107	1/2"	1/2"
107563	1"	1"
107564	1-1/4"	1-1/4"

on Type M1 Manifold

# VALVES - PRESSURE RELIEF



## CARTRIDGE SAFETY RELIEF VALVE Includes Test Certificate with Valve

**Features:-**

- Cartridge safety valves are designed to offer the highest level of protection while maintaining easy serviceability.
- Suitable for ammonia & halocarbon refrigerants.
- ASME Boiler & Pressure Vessel Compliant.
- ANSI/ASHRAE 15 safety standard for refrigeration systems.
- Stainless steel cartridge and internal components
- Cartridge based design allows for replacement while housing & vent pipes remains in place
- Non-stick PTFE seat
- Unaffected by vibration



### Complete Cartridge Valve

Part Number	Valve Type	Connections		Pressure		\$
		Inlet	Outlet	(psi)	(Kpa)	
111634	CSRH1	1/2"FPT	3/4"FPT	150	1033	
111635	CSRH1	1/2"FPT	3/4"FPT	200	1378	
111636	CSRH1	1/2"FPT	3/4"FPT	250	1722	
111637	CSRH1	1/2"FPT	3/4"FPT	300	2066	
111638	CSRH1	1/2"FPT	3/4"FPT	350	2411	
111639	CSRH1	1/2"FPT	3/4"FPT	400	2756	
111640	CSRH2	1/2"FPT	1"FPT	150	1033	
111641	CSRH2	1/2"FPT	1"FPT	200	1378	
111642	CSRH2	1/2"FPT	1"FPT	250	1722	
111643	CSRH2	1/2"FPT	1"FPT	300	2066	
111644	CSRH2	1/2"FPT	1"FPT	350	2411	
111645	CSRH2	1/2"FPT	1"FPT	400	2756	
111646	CSRH3	3/4"FPT	1"FPT	150	1033	
111647	CSRH3	3/4"FPT	1"FPT	200	1378	
111648	CSRH3	3/4"FPT	1"FPT	250	1722	
111649	CSRH3	3/4"FPT	1"FPT	300	2066	
111650	CSRH3	3/4"FPT	1"FPT	350	2411	
111651	CSRH3	3/4"FPT	1"FPT	400	2756	

### Replacement Cartridge Kit

209783	CSRH1	150	1033
209784	CSRH1	200	1378
209785	CSRH1	250	1722
209786	CSRH1	300	2066
209787	CSRH1	350	2411
209788	CSRH1	400	2756
209789	CSRH2	150	1033
209790	CSRH2	200	1378
209791	CSRH2	250	1722
209792	CSRH2	300	2066
209793	CSRH2	350	2411
209794	CSRH2	400	2756
209795	CSRH3	150	1033
209796	CSRH3	200	1378
209797	CSRH3	250	1722
209798	CSRH3	300	2066
209799	CSRH3	350	2411
209800	CSRH3	400	2756

# VALVES - SOLENOID



## SOLENOID VALVES

c/w nuts, bolts & gaskets, less flanges and coil



Description	Port Size		Flanges		Wt (Kg)	\$
	(mm)	(inches)	Connections in inches			
			Standard (stock)	Also available		
100990	S6N-5	5	3/16"	1/2" SW	3/8", 3/4"	2.6
100997	S8F-13	13	1/2"	1/2" SW	3/8", 3/4"	2.6
100993	S7A-20	20	3/4"	3/4" SW	1", 1-1/4"	5.8
100953	S4A-20	20	3/4"	3/4" SW	1", 1-1/4"	10.0
100994	S7A-25	25	1"	1" SW	3/4", 1-1/4"	5.8
100954	S4A-25	25	1"	1" SW	3/4", 1-1/4"	12
100980	S5A-32	32	1-1/4"	1-1-4" SW	1-1/2"	14.0
100955	S4A-32	32	1-1/4"	1-1-4" SW	1-1/2"	16
100982	S5A-50	50	2"	2" SW	1-1/2"	29.0

**Notes :** FPT flanges can be supplied if required. Please allow 100mm above valve for coil removal  
 Please refer to Page I55 for the range of flanges  
 Please refer to Page I59 for the range of coils

# VALVES - SPARE PARTS



## A81-82 EPR & CPR SPARE PARTS KITS

202205	Spring kit (all models)
202701	Gasket/O-ring kit (A81)
203818	Gasket/O-ring kit (A82)
200873	Diaphragm kit (all models)
202715	Seat kit (all models)
203824	Piston kit (A82)

## CHECK VALVES SPARE PARTS KITS

Description	To suit valves
202089	Repair kit - CK4A-050 50mm
202090	Repair kit - CK4A-065 65mm
202091	Repair kit - CK4A-075 75mm
202092	Repair kit - CK4A-100 100mm

## HAND SHUT-OFF VALVES SPARE PARTS KITS

Description			
204267	Handwheel kit	13mm	
204268	Handwheel kit	20, 25mm	
204269	Handwheel kit	32, 40, 50, 65mm	
204270	Handwheel kit	75, 100mm	
204471	Packing kit	13, 20, 25mm	
204472	Packing kit	32, 40, 50, 65mm	
204473	Packing kit	75, 100mm	
205684	Bonnet kit	13mm	
205685	Bonnet assembly	20, 25mm	
205686	Bonnet kit (FPT)	32mm	While Stocks Last
205687	Bonnet assembly	32, 40mm	
205688	Bonnet kit	40, 50mm	
205689	Bonnet kit	65mm	
205690	Bonnet kit	75mm	

**VALVES - SPARE PARTS****R/S SOLENOID VALVE SPARE PARTS**

	Description	To suit valve size
205225	230V 50Hz coil (Din plug type)	5, 13, 20, 25, 32, 50mm
205227	120V 60Hz coil (Din plug type)	
205207	230V 50Hz coil (Lead type)	
205635	24V 50Hz coil (Din plug type)	
205791	24V DC coil (Din plug type)	5, 13, 20, 25, 32, 50mm
208564	230V 50Hz coil (Din plug type) c/w Green LED Pilot Light	
203734	240V 50Hz Coil & Housing	SV2
201042	Tube kit - S7	20, 25mm
209320	Tube kit - S6N S8F S6A	
202072	Plunger/piston kit - S84	13mm
201014	Plunger/piston kit - S7A	20mm
201012	Plunger/piston kit - S7A	25mm
202064	S4A Repair Kit	20mm
202073	Repair kit - S5A	32mm
202075	Repair kit - S5A	50mm
201631	Opening stem kit - S6	5mm
202238	Opening stem kit - S8	13mm
201142	Opening stem kit - S7	20, 25mm
201125	Opening stem kit - S5A	32mm
201133	Opening stem kit - S5A	50mm
202100	S4A Stem Packing Kit	
201632	Gasket kit - S6N	5, 13mm
202286	Gasket kit - S7	20, 25mm
202291	Gasket kit - S5A	32mm
202292	Gasket kit - S5A	50mm

**R/S PRESSURE REGULATING VALVE SPARE PARTS**

200227	A4A Piston Kit	100mm
200389	A4A/S4A Piston Kit	50mm
200391	A4A/S4A Piston Kit	65mm
200393	A4A/S4A Piston Kit	75mm
200760	A4A/S4A Piston Kit	25mm
200767	A4A/S4A Piston Kit	32mm
200770	A4A Diaphragm Kit Range A	All
202000	A4A Seat Kit Pilot Range A	20-50mm
202001	A4A Seat Kit Pilot Range A	65-100mm
202003	A4A Seat Kit Pilot Range D	65-100mm
202006	A4A Spring/Stem Kit Range V & A	All
202007	A4A Spring/Stem Kit Range D	All
202011	A4A Botton Assembly Kit	25mm
202017	A4A Botton Assembly Kit	100mm
202020	A4A Botton Assembly Kit	32mm
202021	A4A Plug Kit Modulating	20mm
202022	A4A Plug Kit Modulating	25mm
202023	A4A Plug Kit Modulating	32mm
202024	A4A Plug Kit Modulating	42mm
202025	A4A Plug Kit Modulating	50mm
202028	A4A Plug Kit Modulating	100mm
202037	A4A Plug Kit Main Valve	20mm
202038	S4A Plug Kit Main Valve	25mm
202039	S4A Plug Kit Main Valve	32mm
202110	A4A Cap Kit Seal	20-65mm
202112	A4A/S4A Gasket Kit	20, 25mm
202113	A4A/S4A Gasket Kit	32mm
202114	A4A/S4A Gasket Kit	42, 50mm
202115	A4A/S4A Gasket Kit	65mm
202116	A4A/S4A Gasket Kit	75mm
202117	A4A/S4A Gasket Kit	100mm
202120	A4A Stem Kit Adjusting	All sizes
202301	A4A Spring Kit Closing	32mm

# VALVES - SPARE PARTS



## FLANGE GASKETS

	Description	
202078	Flange Gasket 1/2"	(Pkt of 10)
202079	Flange Gasket 1"	(Pkt of 10)
202080	Flange Gasket 1.1/4"	(Pkt of 10)
202081	Flange Gasket 2"	(Pkt of 10)
202082	Flange Gasket 2.1/2"	(Pkt of 10)
202083	Flange Gasket 3"	(Pkt of 10)
202084	Flange Gasket 4"	(Pkt of 10)

## STRAINER SPARE PARTS KITS

	Description	
205945	Strainer kit	13mm
200140	Strainer kit	20, 25mm
200142	Strainer kit	32mm
200144	Strainer kit	50mm
200146	Strainer kit	65, 75mm
200148	Strainer kit	100mm

## SPORLAN SOLENOID VALVE PARTS KITS

	Description		
207870	KS-MA5 Repair Kit	While Stocks Last	
207867	KS-MA17 Repair Kit	No Longer Available	
207868	KS-MA32 Repair Kit	No Longer Available	
207869	KS-MA42 Repair Kit	No Longer Available	
207871	KS-MA50 Repair Kit	While Stocks Last	
207711	MKC-3 240V/50Hz	Coil	
310975	MKC-3 24V DC	Coil	While Stocks Last
207705	MKC-3 24V/50Hz	Coil	
207708	MKC-3 120V 50/60Hz	Coil	

## SPORLAN LEVELMASTER PARTS KIT

207801	Heater Kit LMC	15 Watt
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## HUBBELL SOLENOID VALVE PARTS KIT

310452	240V 50Hz Coil (Small)	While Stocks Last
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# VALVES - INDUSTRIAL



## MISCELLANEOUS INDUSTRIAL REFRIGERATION PRODUCTS AVAILABLE

### ELECTRONIC PRESSURE REGULATORS – MVF ELECTRONIC INDUSTRIAL CONTROL VALVE

Suitable for liquid, expansion or vapour service  
 NEMA 3R (IP65) electrical construction  
 Hermetically sealed  
 Outfitted with position feedback  
 Fast response (0-100% open < 1 sec.)  
 On-board diagnostics  
 Replaceable capacity cartridges  
 Corrosion resistant construction

Spring return offers tight shut-off in the event of power failure



### REMOTE PILOT REGULATORS – A2B TYPE

### AUTOMATIC FLOW REGULATORS

### CONSTANT FLOW REGULATORS

### GAS POWERED SUCTION STOP VALVES

### PISTON TYPE CHECK VALVES

### RAPID AUTOMATIC PURGERS

### HERL HAND SHUT OFF / EXPANSION VALVES & SPARE PARTS

### SPORLAN INDUSTRIAL VALVES & SPARES

### WITT LIQUID PUMPS

### GAS DETECTION SYSTEMS



## PHILLIPS REFRIGERATION (H. A. PHILLIPS & Co)



### VESSELS (6" - 144")

Demisters  
 Anhydrator System Cleaner  
 Thermosyphon Receivers

### PACKAGED SYSTEMS

Gas Pressure Recirculation  
 Mechanical Pump Recirculation  
 Liquid Transfer Systems

### CONTROL VALVES

Float, High Side & Low Side  
 Pilot Operated, High Side & Low Side  
 Motorised Valves  
 Pulse Width, Electronic  
 Check, Three Way  
 Regulators, Pressure & Temperature



## COMPRESSOR SPARE PARTS - brands available

Budge  
 Dunham – Bush  
 Grasso  
 Mycom  
 Kobe  
 Lightfoot

Samwha  
 Technofrigo  
 Vilter  
 Teikoku Canned Motor Pumps  
 NH3 LEAK DETECTORS  
 Oil Pumps



### AVAILABLE ON INDENT TERMS.

Other brands are likely to be available, please contact your local Patton Branch.

# Beijer Ref Australia Branch Information



## Beijer Ref Australia Head Office

10/88 Dynon Road  
West Melbourne 3003

Ph: 03 9371 1300  
Fax: 03 9372 5580

Email: [craig.bicket@beijerref.com.au](mailto:craig.bicket@beijerref.com.au)  
Web: [www.beijerref.com.au](http://www.beijerref.com.au)

### QUEENSLAND

#### Beijer Ref Brisbane

Unit 8, 576 Boundary Road  
Archerfield, QLD, 4108  
Ph: 07 3255 5933

#### Beijer Ref Gladstone

Unit 2 6 Easterby Street  
Gladstone 4680  
Ph: 07 4972 3249

#### Beijer Ref Brisbane North

Unit 11a 229 Robinson Road  
East Geelong  
Brisbane 4034  
Ph: 07 3216 5999

#### Beijer Ref Rockhampton

296 Denison Street  
Rockhampton 4700  
Ph: 07 4927 3648

#### Beijer Ref Southport

25 Olympic Circuit  
Southport, QLD, 4215  
Ph: 07 5571 2622

#### Beijer Ref Townsville

73 Pilkington Street  
Garbutt, Townsville 4814  
Ph: 07 4408 6300

#### Beijer Ref Toowoomba

10 Aspect Street  
Toowoomba, QLD, 4350  
Ph: 07 4632 3922

### NEW SOUTH WALES

#### Beijer Ref Auburn

3 Short Street, Auburn  
Sydney, NSW 2144  
Ph: 02 8756 4000

#### Beijer Ref Albury

1/826 Hope Court  
Albury, NSW 2640  
Ph: 02 6025 9911

#### Beijer Ref Alexandria

4/37 O'Riordan Street  
Alexandria, NSW 2015  
Ph: 02 9699 6566

#### Beijer Ref Campbelltown

2/167 Airds Road  
Leumeah, NSW 2560  
Ph: 02 4627 9661

#### Beijer Ref Newcastle

22 Newton Street  
Broadmeadow, NSW 2292  
Ph: 02 4952 4222

### VICTORIA

#### Beijer Ref West Melbourne

10/88 Dynon Road  
West Melbourne, VIC 3003  
Ph: 03 9371 1300

#### Beijer Ref Thomastown

57 Lucknow Crescent  
Thomastown, VIC 3074  
Ph: 03 9469 5881

#### Beijer Ref Bendigo

195 Breen Street  
Bendigo, VIC 3550  
Ph: 03 5444 1720

#### Beijer Ref Ballarat

824 La Trobe Street  
Ballarat, VIC 3350  
Ph: 03 5336 3733

#### Beijer Ref Clayton

160 Wellington Road  
Clayton, VIC 3168  
Ph: 03 9562 2666

### SOUTH AUSTRALIA

#### Beijer Ref Adelaide

80 Ormond Street  
Hindmarsh, SA 5007  
Ph: 08 8340 4594

### WESTERN AUSTRALIA

#### Beijer Ref Perth

15 Pearson Way  
Osborne Park, WA 6017  
Ph: 08 9445 2399

**BEIJER REF** *Australia*  
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