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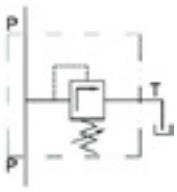
Pressure Relief Valves

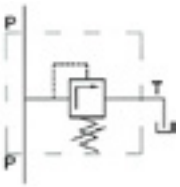
Single Pressure Relief valves inline
Various port configerations flow rates up to 180 l/min.

Pressure Relief Valve — Direct Acting CP



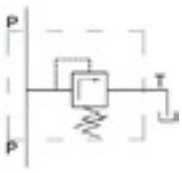
Part Number	bsp	Max Flow l/min	Max Pressure bar	Spring X adj. bar	Spring U adj. bar	Spring K adj. bar Standard
CP 20 14	1/4”	20	350	10-100	20-230	100-350
CP 40 38	3/8”	40	350	10-100	20-230	100-350
CP 40 12	1/2”	40	350	10-100	20-230	100-350
CP 80 12	1/2”	80	350	10-100	20-230	100-350
CP 80 34	3/4”	80	350	10-100	20-230	100-350
CP 150 34	3/4”	150	350	10-100	20-230	100-350
CP 150 10	1”	150	350	10-100	20-230	100-350

Pressure Relief Valve — Direct Acting CP/L



Part Number	bsp	Max Flow l/min	Max Pressure bar	Spring X adj. bar	Spring U adj. bar	Spring K adj. bar Standard
CP/L 40 38	3/8”	40	350	10-100	20-230	100-350
CP/L 40 12	1/2”	40	350	10-100	20-230	100-350
CP/L 80 12	1/2”	80	350	10-100	20-230	100-350
CP/L 80 34	3/4”	80	350	10-100	20-230	100-350
CP/L 150 34	3/4”	150	350	10-100	20-230	100-350
CP/L 150 10	1”	150	350	10-100	20-230	100-350

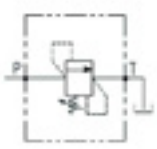
Pressure Relief Valve — Direct Acting VMDR



Hand Wheel Adjustment ‘CK’ available

Part Number	bsp	Max Flow l/min	Max Pressure bar	Spring 1 bar max	Spring 2 bar max	Spring 3 bar max	Spring 4 bar max
VMDR10140	1/4”	20	350	40	110	250 STD	350
VMDR40380	3/8”	40	350	110	210	300 STD	—
VMDR40120	1/2”	40	350	110	210	300 STD	—
VMDR90120	1/2”	90	350	100	250	350 STD	—
VMDR90340	3/4”	90	350	100	250	350 STD	—
VMDR120340	3/4”	120	350	100	250	350 STD	—
VMDR120100	1”	120	350	100	250	350 STD	—

Pressure Relief Valve High Flow 2 ported Direct Acting Poppet — VMPD-T



Part Number	bsp	Max Flow l/min	Max Pressure bar	Spring adj. bar
VMPD-T-100	1”	180	350	40-350
VMPD-T-114	1 1/4”	180	350	40-350

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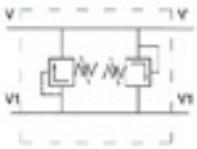
Pressure Relief Valves

Dual Pressure Relief valves inline and Single & Dual Relief valves for Hydraulic Motor mounting, flow rates up to 150 l/min.

Dual Pressure Relief Valve — Direct Acting CP DI/L

Part Number	bsp	Max Flow l/min	Max Pressure bar	Spring X adj. bar	Spring U adj. bar	Spring K adj. bar Standard
CP DI L 40 38	3/8”	40	350	10-100	20-230	100-350
CP DI L 80 12	1/2”	80	350	10-100	20-230	100-350
CP DI L 80 34	3/4”	80	350	10-100	20-230	100-350
CP DI L 150 34	3/4”	150	350	10-100	20-230	100-350
CP DI L 150 10	1”	150	350	10-100	20-230	100-350

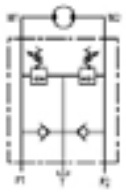


Hydraulic Motor Mounting Pressure Relief Valve — VAU

Part Number	Type	bsp	Max Flow l/min	Max Pressure bar	Standard Pressure Range bar
VAU 1/2” SE OMP OMR	Single	1/2”	60	350	30-180
VAU 1/2” SE OMP OMR SF	Single with Brake Release	1/2”	60	350	30-180
VAU 1/2” DE OMP OMR	Dual	1/2”	60	350	30-180
VAU 1/2” DE OMP OMR SF	Dual with Brake Release	1/2”	60	350	30-180
VAU 1/2” SE OMS	Single	1/2”	50	350	30-180
VAU 1/2” DE OMS	Dual	1/2”	50	350	30-180
VAU 1/2” DE OMS SF	Dual with Brake Release	1/2”	50	350	30-180
VAU 3/4” DE OMT	Dual	3/4”	100	350	30-180

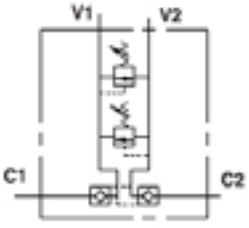
Dual Pressure Relief Valve -c/w Anti-cavitation valves — VAUAC

Part Number	Type	bsp	Max Flow l/min	Max Pressure bar	Standard Pressure Range bar
VAUAC 3/8”	Dual with Anti-cavitation	3/8”	45	350	10-180
VAUAC 1/2”	Dual with Anti Cavitation	1/2”	70	350	10-180
VAUAC 3/4”	Dual with Anti Cavitation	3/4”	110	350	10-180



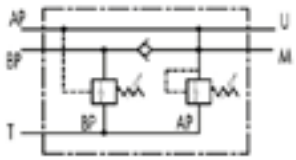
Dual Relief Valve -c/w Pilot Operated Check valves — VBLP

Part Number	Type	bsp	Max Flow l/min	Max Pressure bar
VBLP 3/8”	Dual with Pilot Operated Check valves	3/8”	35	350
VBLP 1/2”	Dual with Pilot Operated Check valves	1/2”	70	350
VBLP 3/4”	Dual with Pilot Operated Check valves	3/4”	110	350



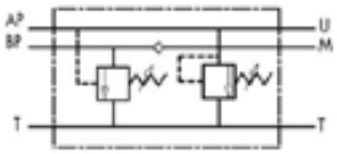
Dual Pump 'Hi-Low' Unloading Valves & Pressure Reducing Valves

Dual Pump 'Hi-Low' Unloader valve, Inline body — VABP

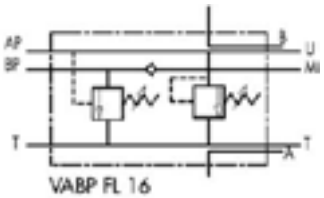


Part Number	AP Flow l/min	BP Max Flow l/min	T Max Flow l/min	Max Pressure bar	AP Pressure Range bar	BP Pressure Range bar	AP bsp	BP/U bsp	T bsp
VABP 38	20	40	60	350	50-350	20-80	1/4"	3/8"	1/2"
VABP 12	30	50	80	350	50-350	20-80	3/8"	1/2"	3/4"
VABP 34	40	80	120	350	50-350	20-80	1/2"	3/4"	1"

Dual Pump 'Hi-Low' Unloader, CETOP Interface — VABP FL



VABP FL 6
VABP FL 10

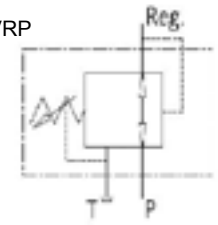


VABP FL 16

Part Number	Cetop Interface Size	AP Flow l/min	BP Max Flow l/min	T Max Flow l/min	Max Pressure bar	AP Pressure Range bar	BP Pressure Range bar	AP ports bsp	BP/U ports bsp	A/B/T ports bsp
VABP FL6	3	20	40	60	350	50-350	20-80	1/4"	3/8"	1/2"
VABP FL10	5	30	50	80	350	50-350	20-80	3/8"	1/2"	3/4"
VABP FL16	7	40	100	120	350	50-350	20-80	1/2"	3/4"	1"

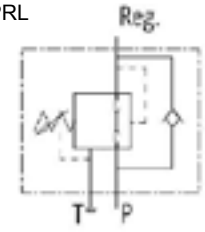
Pressure Reducing valves Direct Acting, with or without Check valve — VRP/VRPRL

VRP



Part Number	P,T, Reg. bsp	Max Flow l/min	Max Pressure bar	Standard Setting range bar	Optional Setting range bar
VRP 3/8"	3/8"	30	350	35-180	10-60
VRP 1/2"	1/2"	30	350	35-180	10-60
VRPRL 3/8"	3/8"	30	350	35-180	10-60
VRPRL 1/2"	1/2"	30	350	35-180	10-60

VRPRL



Shuttle valves, Regenerative valve & Brake Unclamping valves

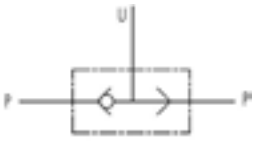
Pressure Switch — Type LPS

Piston switch, large pressure control range and precise adjustment
Switching frequency up to 300 times per minute

Part Number	Adjustment Method	bsp	Adjustment range bar	Max Pressure bar
LPS-7.5-HS	ROTARY KNOB	1/4”	30-75	350
LPS-14-HS	ROTARY KNOB	1/4”	75-140	350
LPS-21-HS	ROTARY KNOB	1/4”	140-210	350
LPS-35-HS	ROTARY KNOB	1/4”	210-350	350

Shuttle Valve — VUSF/VU2P

Part Number	bsp	Material	Max Flow l/min	Max Pressure bar
VUSF 140	1/4”	Steel	20	350
VUSF 380	3/8”	Steel	40	350
VU2P 3/8”	3/8”	Steel	45	450
VUSF 120	1/2”	Steel	60	350
VU2P 1/2”	1/2”	Steel	70	450
VU2P 3/4”	3/4”	Steel	110	350
VU2P 1”	1”	Steel	150	300



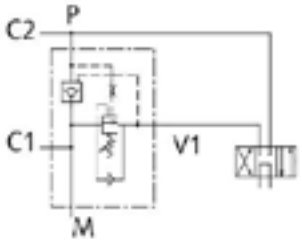
VU2P

VUSF

Regenerative Valve — VRSP

The flow returning into the valve from port C1 will be added to the pump flow ‘P’ to give an increased speed of movement in one direction with maximum Thrust.

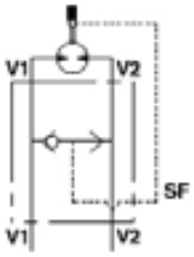
Part Number	bsp	Max Flow l/min	Pilot Ratio	Pressure range bar
VRSP 1/2”	1/2”	60	1:4.5	60-350



Brake Unclamping Valve — VSBF

This valve is mounted directly onto OMP, OMR & OMS type motors and is used to unlock the motors hydraulic brake

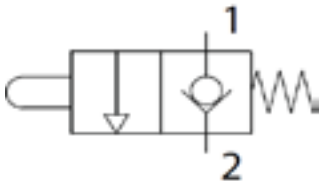
Part Number	bsp	Max Flow l/min	Maximum Pressure bar
VSBF 1/2” OMP/OMR	1/2”	60	60-350
VSBF 1/2” OMS	1/2”	40	60-350



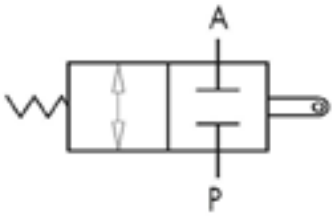
2 Way End Run Valves

Mechanical spool Operation
1/4” bsp up to 3/4” bsp

End Stroke Valve — Normally Closed — FCM / V-NC / V-FCR2T

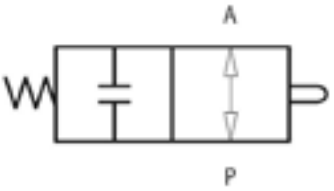


Normally Closed	bsp	Max Flow l/min	Max Pressure bar
FCM140	1/4”	40	350
FCM380	3/8”	40	350
FCM120	1/2”	60	300
V101-3/8”-NC	3/8”	50	350
V-121-1/2”-NC	1/2”	70	350
V-201-3/4”-NC	3/4”	100	350

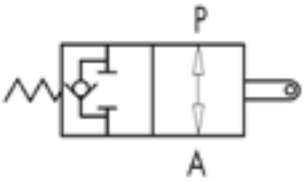


Normally Closed	bsp	Max Flow l/min	Max Pressure bar
V-FCR2T-60	3/8”	60	350
V-FCR2T-80	1/2”	80	350
V-FCR2T-120	3/4”	120	350

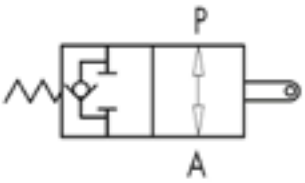
End Stroke Valve — Normally Open — V-NA/ V-FCR1T



Normally Open	bsp	Max Flow l/min	Max Pressure bar
V-101-3/8”-NA	3/8”	45	350
V-121-1/2”-NA	1/2”	60	350



Normally Open with Check valve	bsp	Max Flow l/min	Max Pressure bar
V-101-3/8”-NA-VU	3/8”	45	350
V-121-1/2”-NA-VU	1/2”	60	350



Normally Open	bsp	Max Flow l/min	Max Pressure bar
V-FCR1T-60	3/8”	60	350
V-FCR1T-80	1/2”	80	350
V-FCR1T-120	3/4”	120	350

2 Way Solenoid Operated Poppet Valves

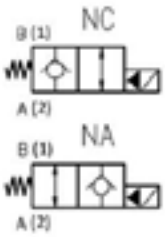
Steel Bodied up to 350 bar, 1/4” bsp up to 1 1/4” bsp

2 Way Poppet Valve High Pressure Steel bodied — VAS

VAS Valves are checked in only one direction when in the closed position allowing free flow in the other direction. Available in all DC & AC Voltages.

Normally Open	bsp	Max Flow l/min	Max Pressure bar
VAS-NA-14	1/4”	40	320
VAS-NA-38	3/8”	50	320
VAS-NA-12	1/2”	70	320
VAS-NA-34	3/4”	70	320
VAS-NA-100	1”	150	320
VAS-NA-114	1 1/4”	260	350

Normally Closed	bsp	Max Flow l/min	Max Pressure bar
VAS-NC-14	1/4”	40	320
VAS-NC-38	3/8”	50	320
VAS-NC-12	1/2”	70	320
VAS-NC-34	3/4”	70	320
VAS-NC-100	1”	150	320
VAS-NC-114	1 1/4”	260	350



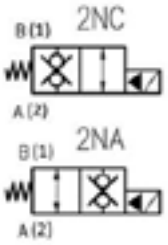
N.B. The 1 1/4” bsp valve has a closed path from port B(1) to port A(2) ; a different port configeration than all other valve sizes which are port A(2) to port B(1).

2 Way Poppet Valve, Dual Check — VAS-2

VAS-2 Valves are checked in both directions when in the closed position. Available in all DC & AC Voltages.

Normally Closed	bsp	Max Flow l/min	Max Pressure bar
VAS-2NC-14	1/4”	40	320
VAS-2NC-38	3/8”	50	320
VAS-2NC-12	1/2”	70	320
VAS-2NC-34	3/4”	70	320
VAS-2NC-100	1”	150	320
VAS-2NC-114	1 1/4”	260	350

Normally Open	bsp	Max Flow l/min	Max Pressure bar
VAS-2NA-14	1/4”	40	320
VAS-2NA-38	3/8”	50	320
VAS-2NA-12	1/2”	70	320
VAS-2NA-34	3/4”	70	320
VAS-2NA-100	1”	150	320
VAS-2NA-114	1 1/4”	260	350

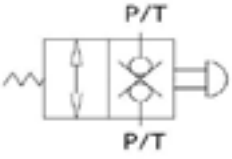


N.B. The 1 1/4” bsp valve has a closed path from port B(1) to port A(2) ; a different port configeration than all other valve sizes which are port A(2) to port B(1).

Manual Emergency Valve — VEM

Normally Closed, button is pushed in to allow flow

Part Number	bsp	Max Flow l/min	Max Pressure bar
VEM 12	1/2”	70	350



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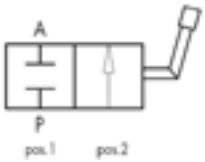
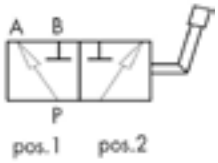
Ball Valves & Swivel Couplings

2 Way High Pressure Ball Valve with Mounting holes — RS2



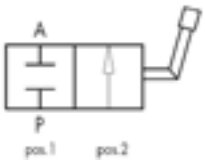
Part Number	bsp	DN	Max Pressure bar
RS2 1/4" FF	1/4"	6	500
RS2 3/8" FF	3/8"	10	500
RS2 1/2" FF	1/2"	13	500
RS2 3/4" FF	3/4"	20	400
RS2 1"FF	1"	25	350
RS2 1 1/4"FF	1 1/4"	25	350
RS2 1 1/2"FF	1 1/2"	25	350
RS2 2" (Without mounting holes)	2"	40	350

3 Way High Pressure Ball Valve — RS3



Part Number	bsp	DN	Max Pressure bar
RS3 1/4"FF	1/4"	6	500
RS3 3/8"FF	3/8"	10	500
RS3 1/2"FF	1/2"	13	500
RS3 3/4" FF	3/4"	20	400
RS3 1"FF	1"	25	350
RS3 1 1/4"FF	1 1/4"	25	350
RS3 1 1/2"FF	1 1/2"	25	350

2 Way Low Pressure Brass Ball Valve — BV90



Part Number	bsp	Max Pressure bar
BV90-18	1/8"	32
BV90-14	1/4"	32
BV90-38	3/8"	32
BV90-12	1/2"	32
BV90-34	3/4"	32
BV90-10	1"	25
BV90-114	1 1/4"	25
BV90-112	1 1/2"	25
BV90-20	2"	25
BV90-212	2 1/2"	30
BV90-30	3"	30
BV90-40	4"	30

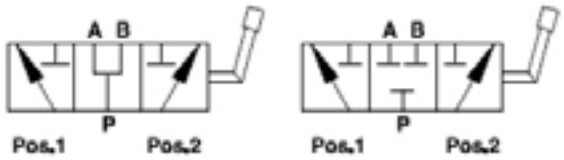
Swivel under pressure Coupling — GG

Mounted between the end of a flexible hose and a fixed component to prevent damage due to hose twist and Rotation. They are not suitable for high speed rotation.

Straight Coupling Part Number	90 Degree Coupling Part Number	Thread bsp	Max Flow l/min	Max Pressure of Rotation bar	Max Pressure bar	Max Speed of Rotation rpm
GGL 1/4"	GG90 1/4"	1/4"	25	200	400	212
GGL 3/8"	GG90 3/8"	3/8"	35	200	400	173
GGL 1/2"	GG90 1/2"	1/2"	60	150	300	160
GGL 3/4"	GG90 3/4"	3/4"	100	150	300	120
GGL 1"	GG90 1"	1"	180	100	300	100
GGL 1 1/4"	GG90 1 1/4"	1 1/4"	270	100	300	86
GGL 1 1/2"	GG90 1 1/2"	1 1/2"	350	80	300	73
GGL 2"	GG90 2"	2"	700	50	250	35

Manual Diverter valves

3 Way Cast Iron Diverter valve — 3 Way D3V

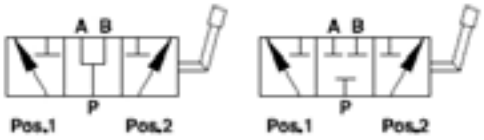


'A' Open centre

'B' Closed centre

Part Number ('A' Open centre / 'B' Closed centre)	bsp	Max Flow l/min	Max Pressure bar
D3V-38 A (B)	3/8"	60	300
D3V-12 A (B)	1/2"	90	300
D3V-34 A (B)	3/4"	120	300
D3V-10 A (B)	1"	200	280

3 Way High Pressure Steel Diverter valve — 3 Way G3V



'A' Open centre

'B' Closed centre

Part Number (with type 'A' Open Centre)	bsp	Max Flow l/min	Max Pressure bar
G3V-14 A	1/4"	40	500
G3V-38 A	3/8"	60	500
G3V-12 A	1/2"	90	500
G3V-34 A	3/4"	120	500
G3V-10 A	1"	180	500

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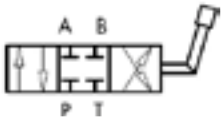
Manual Diverter Valves

4 Way Rotary Diverter valve — D4V

Part Number ‘A’ Open centre ‘B’ Closed centre	bsp	Max Flow l/min	Max Pressure bar
D4V-38 A (B)	3/8”	60	300
D4V-12 A (B)	1/2”	90	300
D4V-34 A (B)	3/4”	120	300
D4V-10 A (B)	1”	200	280

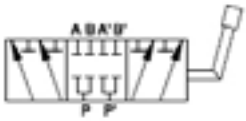
‘A’ Open centre



‘B’ Closed centre

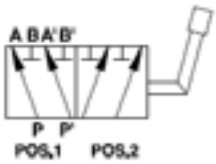
6 Way Rotary Diverter valve — D6V / DFV

‘A’ Open centre



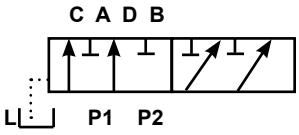
‘B’ Closed centre

Part Number ‘A’ Open centre ‘B’ Closed centre	bsp	Max Flow l/min	Max Pressure bar
D6V-14 A	1/4”	60 + 60	300
D6V-38 A	3/8”	60 + 60	300
D6V-12 A	1/2”	90 + 90	300
D6V-34 A	3/4”	120 + 120	300
D6V-10 A	1”	200 + 200	280



Part Number	bsp	Max Flow l/min	Max Pressure bar
DFV-38 A	3/8	40 + 40	300
DFV-12 A	3/8”	60 + 60	300

6 Way Lever Operated Diverter Valve — KV-6/2-R(RA)



Part Number	Lever Control	bsp	Max Flow l/min	Max Pressure bar (Max Pressure with drain port ‘L’ Connected)
KV-6/2-6-R-3/8”-YZ-S50	Spring Return	3/8”	60	160 (350)
KV-6/2-6-RA-3/8”-YZ-S50	Detented	3/8”	60	160 (350)
KV-6/2-6-R-1/2”-YZ-S50	Spring Return	1/2”	60	160 (350)
KV-6/2-6-RA-1/2”-YZ-S50	Detented	1/2”	60	160 (350)
KV-6/2-10-R-1/2”-YZ	Spring Return	1/2”	120	160 (350)
KV-6/2-10-RA-1/2”-YZ	Detented	1/2”	120	160 (350)
KV-6/2-10-R-3/4”-YZ	Spring Return	3/4”	120	160 (350)
KV-6/2-10-RA-3/4”-YZ	Detented	3/4”	120	160 (350)

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Solenoid Operated Diverter valves

3 Way Solenoid Operated Diverter — KVC-3/2 & HVC6/10

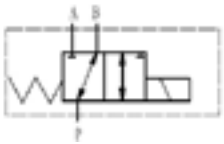
Steel Body, Flow up to 100 l/min
Available in all DC & AC Voltages, Emergency Push button option, suffix 'G'
Valves with 'YZ' drain line connected are Max Pressure 350 bar"

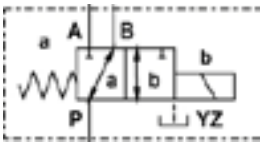

KVC-3/2-4


HYC-HVC6


KVC-3/2-10


KVC-3/2-10-YZ



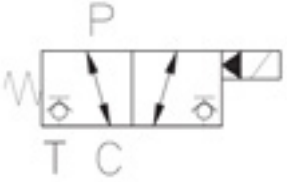


Part Number	bsp	Max Flow l/min	Max Pressure bar
KVC-3/2-4-14	1/4"	20	160
HYC-HVC6-G3/8	3/8"	50	250
KVC-3/2-10-38	3/8"	60	250
KVC-3/2-10-38-YZ	3/8"	60	350
KVC-3/2-10-12	1/2"	60	250
KVC-3/2-10-12-YZ	1/2"	60	350
HYC-HVC10-G1/2	1/2"	80	250
KVC-3/2-10-34	3/4"	70	250
KVC-3/2-10-34-YZ	3/4"	100	350

3 Way Solenoid Operated Diverter — E3V

Aluminium Body, 35 l/min
Available in 12,24 & 48 DC & 24, 110 or 230 AC

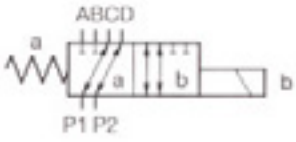
Part Number	bsp	Max Flow l/min	Max Pressure bar
E3V-3/8"	3/8"	35	250
E3V-1/2"	1/2"	35	250



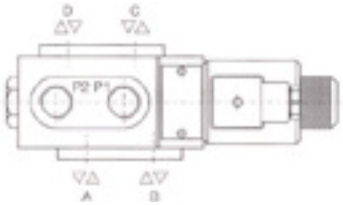
Solenoid Operated Diverter valves

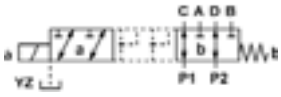
6 Port Electric Diverter 50 l/min KV-6/2-6-S40/S50 / KVH6

Valves with 'YZ' drain line connected are Max Pressure 350 bar"

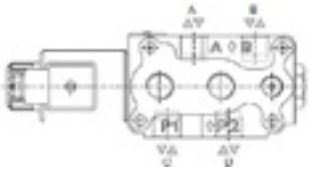


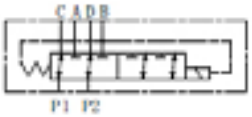
S40





S50



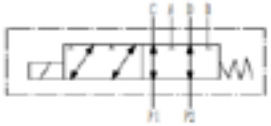


KVH-6

Part Number	bsp	Max Flow l/min	Max Pressure bar
KV-6/2-6-3/8"-S40	3/8"	50	210
HYC-KVH6-G3/8	3/8"	50	210
KV-6/2-6-3/8"-S50-YZ	3/8"	50	250 (350 with drain connected)
KV-6/2-6-1/2"-S40	1/2"	50	210
HYC-KVH6-G1/2	1/2"	50	210
KV-6/2-6-1/2"-S50-YZ	1/2"	50	250 (350 with drain connected)

6 Port Electric Diverter, Rear ported 50 l/min ZVH6

Part Number	bsp	Max Flow l/min	Max Pressure bar
ZVH6 G3/8	3/8"	50	210



Push Button Switch to fit a directional control valve lever 3546

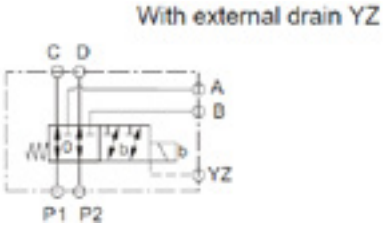
PUSH BUTTON ELECTRICAL SWITCH
10mm x 1.5 Thread

Solenoid Operated Diverter valves

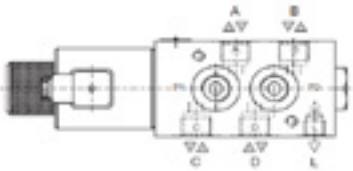
6 Port Electric Diverter Max 120 l/min KV-6/2-8/10 & SVK10

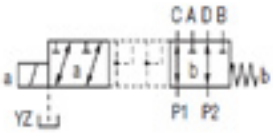
Valves with 'YZ' drain line connected are Max Pressure 350 bar

KVH-6/2-8 can be assembled with up to 6 sections



6/2-8



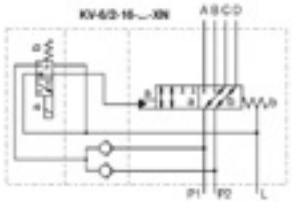


6/2-10

Part Number	bsp	Max Flow l/min	Max Pressure bar
HYC-SVK10-G1/2	1/2"	80	250
KVH-6/2-8-1/2" -YZ	1/2"	90	250 (350 with drain connected)
KV-6/2-10-1/2"-YZ-S40	1/2"	90	250 (350 with drain connected)
HYC-SVK10-G3/4	3/4"	80	250
KV-6/2-10-3/4"-YZ-S40	3/4"	120	250 (350 with drain connected)

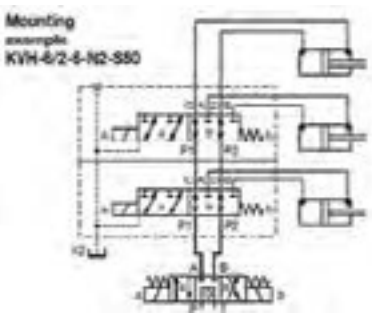
6 Port Electric Diverter 250 l/min KV-6/2-16

Part Number	bsp	Max Flow l/min	Max Pressure bar
KV-6/2-16-XN	1" SAE Flange Ported	250	250 (350 with Drain Connected)



8 Port Electric Diverter Max 120 l/min KV-6/2-6 & KV-6/2-10

Part Number	bsp	Max Flow l/min	Pressure bar (Max Pressure with drain port connected)
KV-8/3-6-3/8"	3/8"	50	210
HYC-2KVH-G3/8	3/8"	50	210
KV-8/3-6-1/2"	1/2"	50	210
HYC-2KVH-G1/2	1/2"	50	210
KVH-6/2-10-12-N2-S40	1/2"	90	250 (315 with Drain Line connected)
KVH-6/2-10-34-N2-S40	3/4"	120	250 (315 with Drain Line connected)



KVH-8/3

HYC-2KVH

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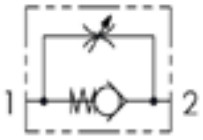
Flow Control Valves

Speed and Needle Control valves
1/8” bsp up to 1 1/2” bsp
Suitable for panel mounting with seperate lock nut

Flow Control Valve, Bi Directional & Uni Directional Flow — STBF/STUF

Panel Mount model supplied with Spindle Mounting Nut

Bi Directional Valve	bsp	Max Flow l/min	Max Pressure bar
STBF 180	1/8”	10	400
STBF 140	1/4”	15	400
STBF 380	3/8”	30	400
STBF 120	1/2”	50	400
STBF 340	3/4”	80	400
STBF 100	1”	150	400
STBF 114	1 1/4”	200	300
STBF 112	1 1/2”	300	300

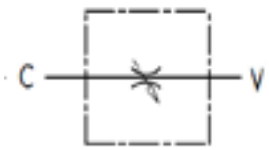


Uni Directional Valve	bsp	Max Flow l/min	Max Pressure bar
STUF 180	1/8”	10	400
STUF 140	1/4”	15	400
STUF 380	3/8”	30	400
STUF 120	1/2”	50	400
STUF 340	3/4”	80	400
STUF 100	1”	150	400
STUF 114	1 1/4”	200	300
STUF 112	1 1/2”	300	300

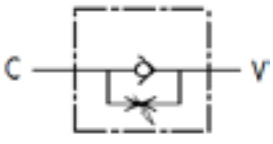
Lock Nuts for Panel Mounting	Valve size
84100022	1/4” & 3/8”
84100023	1/2”
84100024	3/4” & 1”
84100030	1 1/4” & 1 1/2”

Barrel Flow Control Valve — VRB/VRF

Bi directional & Uni Directional Flow Control



Bi Directional Valve	bsp	Max Flow l/min	Max Pressure bar
VRB 140	1/4”	20	300
VRB 380	3/8”	45	300
VRB 120	1/2”	70	300
VRB 340	3/4”	110	250
VRB 100	1”	160	250



Uni Directional Valve	bsp	Max Flow l/min	Max Pressure bar
VRF 140	1/4”	20	300
VRF 380	3/8”	45	300
VRF 120	1/2”	70	300
VRF 340	3/4”	110	250
VRF 100	1”	160	250
VRF 114	1 1/4”	210	230
VRF 112	1 1/2”	280	230

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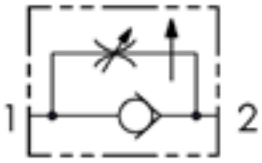
Flow Control Valves

Compensated Speed & Needle Control valves &
Lockable Priority Adjustable Flow Control

Pressure Compensated Flow Control, Uni Directional Flow — VRC

The flow rate is constant despite load variations (downstream pressure)

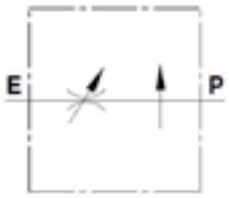
Uni Directional Valve	bsp	Max Flow l/min	Max Pressure bar
VRC 140	1/4”	10	250
VRC 380	3/8”	18	250
VRC 120	1/2”	33	250



2 port Flow Compensated Control Valve — 350 Bar Rated — RFP2

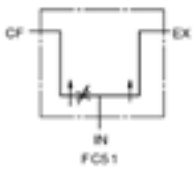
The flow rate is constant despite changes in the inlet pressure

Part Number	bsp	Max Inlet Flow l/min	Max Pressure bar
RFP2 3/8”	3/8”	30	350
RFP2 1/2”	1/2”	50	350
RFP2 3/4”	3/4”	90	350
RFP2 1”	1”	160	350



Lockable Priority Adjustable Flow Divider — 114 l/min — 207 bar — FC51
Cast body

Part Number	bsp	Max Inlet Flow l/min	Max Pressure bar
FC51 G1/2”	1/2”	114	207
FC51 G3/4”	3/4”	114	207



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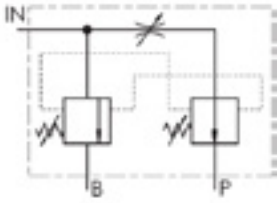
Priority Adjustable Flow Control Valves

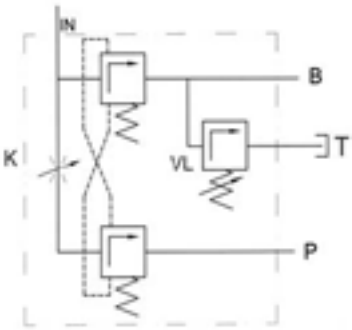
Pressure Compensated Priority Adjustable Flow Control Valves , 3/8” bsp up to 1” bsp

Priority Adjustable Flow Divider Cast body — RFP



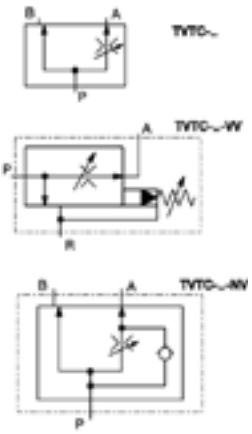
Part Number	bsp	Max Inlet Flow l/min	Maximum Pressure bar
RF 40P	3/8” & 1/2”	40	250
RF 70P	1/2” & 3/4”	80	250

Priority Adjustable Flow Divider with Pressure Relief Valve Cast body — RFPV



Part Number	bsp	Max Inlet Flow l/min	Max Pressure bar	Pressure Relief Valve setting bar
RF 70 PVX	1/2” & 3/4”	80	250	70(10-100)
RF 70 PVU	1/2” & 3/4”	80	250	140(50-230)
RF 70 PVK	1/2” & 3/4”	80	250	200(100-250)

Priority Adjustable Flow Divider, Precise adjustment Steel Body — TVTC



Part Number	bsp	Max Flow l/min	Adj. Range l/min	Operating Pressure bar
TVTC-12	1/2” & 3/4” P	32	1 to12	5 up to 350
TVTC-25	1/2” & 3/4” P	65	1 to 25	5 up to 350
TVTC-50	1/2” & 3/4” P	65	1 to 50	5 up to 350
With Pressure Relief				
TVTC-12-VV	1/2” & 3/4” P	32	1 to12	5 up to 350
TVTC-25-VV	1/2” & 3/4” P	65	1 to 25	5 up to 350
TVTC-50-VV	1/2” & 3/4” P	65	1 to 50	5 up to 350
With Reverse Flow				
TVTC-12-NV	1/2” & 3/4” P	32	1 to12	5 up to 350
TVTC-25-NV	1/2” & 3/4” P	65	1 to 25	5 up to 350
TVTC-50-NV	1/2” & 3/4” P	65	1 to 50	5 up to 350

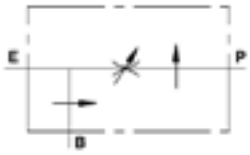
Priority Adjustable Flow Control Valves

Pressure Compensated Priority Adjustable Flow Control Valves
3/8” bsp up to 1” bsp

Priority Adjustable Flow Divider — VPR3

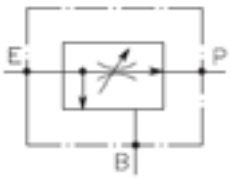
Suitable for on going pressure line. Steel Body

Part Number	bsp	Max Inlet Flow l/min	Max Priority Flow l/min	Max Pressure bar
VPR3 38	3/8”	60	50	350
VPR3 12	1/2”	80	60	350
VPR3 34	3/4”	120	100	350
VPR3 10	1”	200	170	350



Priority Flow Control Combination type High Flow Aluminium Body — VRF3V

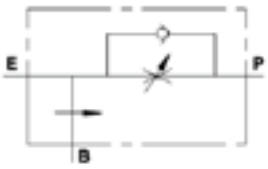
Part Number	bsp	Max Inlet Flow l/min	Max Priority Flow l/min	Max Pressure bar
VRF3V-114	1 1/4”	380	210	210



Priority Adjustable Flow valve c/w reverse flow check — RFP3 VU

The integrated check valve allows return flow through the valve. Steel Body

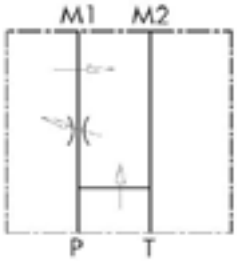
Part Number	bsp	Max Inlet Flow l/min	Max Priority Flow l/min	Max Pressure bar
RFP3 38 C/VU	3/8”	60	50	350
RFP3 12 C/VU	1/2”	80	60	350



Direct Mounting Flow Control — RFP3 OMP/OMR/OMS

3 port Flow Control direct mounting to OMP/OMR/OMS type motors, excess flow to tank

Part Number	bsp	Max Inlet Flow l/min	Max Priority Flow l/min	Max Pressure bar
RFP3 OMP/OMR	1/2”	60	50	350
RFP3 OMS	1/2”	60	50	350



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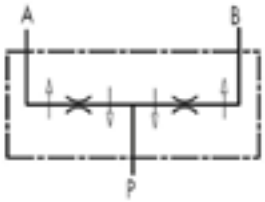
Flow Divider/Combiner Valves & Fixed flow cartridges

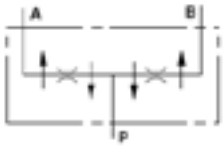
Pressure Compensated Flow Divider/Combiner valves

50%-50% Flow Divider/Combiner — Cast Iron — VEQ



Part No	bsp	Inlet Flow Range l/min	Working Pressure bar	Max Peak Pressure bar
VEQ-8	3/8”	1-3	250	300
VEQ-10	3/8”	3-6	250	300
VEQ-15	3/8”	6-10	250	300
VEQ-20	3/8”	10-20	250	300
VEQ-22	3/8”	20-32	250	300
VEQ-25	3/8” &1/2”	25-40	250	300
VEQ-30	3/8” &1/2”	40-60	250	300
VEQ-50	3/8” &1/2”	60-80	250	300

50%-50% Flow Divider/Combiner — Steel — Type DFL



Part Number	bsp	Inlet Flow Range l/min	Working Pressure bar	Max Peak Pressure bar
DFL 1-3	3/8”	1-3	250	300
DFL 3-6	3/8”	3-6	250	300
DFL 6-10	3/8”	6-10	250	300
DFL 10-20	3/8”	10-20	250	300
DFL 20-32	3/8”	20-32	250	300
DFL 25-40	3/8” & 1/2”	25-40	250	300
DFL 40-60	3/8” & 1/2”	40-60	250	300
DFL 60-80	3/8” & 1/2”	60-80	250	300
DFL 80-100	1/2” & 3/4”	80-100	250	300
DFL 100-120	3/4” & 1”	100-120	250	300
DFL 120-150	3/4” & 1”	120-150	250	300

Fixed Compensated Flow Control Cartridge — Type VCC / VSC

VCC / VSC Fixed Compensated Load Control Valve keep the load descent constant despite changes in working pressure or load value.

Cartridge	bsp	Max Flow l/min	Max Pressure bar
VCC-140	1/4”	12	250
VCC-380	3/8”	18	250
VCC-120	1/2”	47	210

Housing Size bsp	Male x Female body	Female x Female body
1/4”	61100160	61100159
3/8”	61100162	61100161
1/2”	61100033	61100094

VCC140 Part Number	Controlled Flow at 100 bar +/- 10%
VCC140-1	1
VCC140-2	2
VCC140-3	3
VCC140-4	4
VCC140-5	5
VCC140-6	6
VCC140-7	7
VCC140-8	8
VCC140-9	9
VCC140-10	10
VCC140-11	11
VCC140-12	12

VCC380 Part Number	Controlled Flow at 100 bar +/- 10%
VCC380-1	1
VCC380-2	2
VCC380-3	3
VCC380-4	4
VCC380-5	5
VCC380-6	6
VCC380-7	7
VCC380-8	8
VCC380-9	9
VCC380-10	10
VCC380-11	11
VCC380-12	12
VCC380-16	16
VCC380-18	18

VSC120 Part Number	Controlled Flow at 100bar +/- 10%
VCC120-9	9
VCC120-12	12
VCC120-17	17
VCC120-21	21
VCC120-27	27
VCC120-32	32
VCC120-40	40
VCC120-47	47

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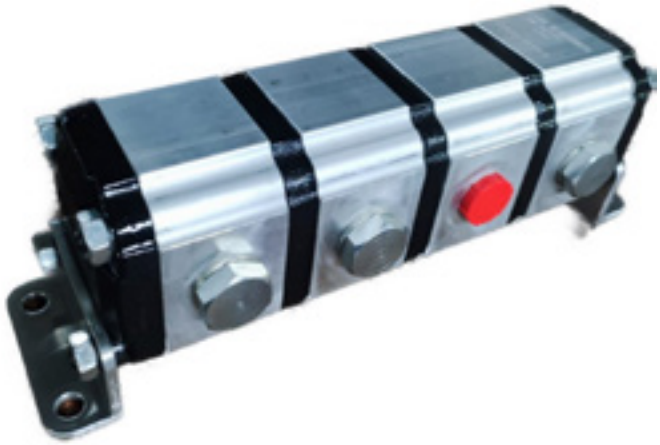
Geared Flow Dividers

Petrone Group 2 Flow Dividers
4 cc/rev up to 26 cc/rev, available with phase Correction valves if required
Speed range of 1000 - 2500 rpm. High Efficiency - Less than 2% flow division error.



Part Number	Displacement cc	Continuous Max Outlet Pressure bar	Peak Max Outlet Pressure bar	Minimum Flow per Section l/min	Recommended Flow per Section l/min	Maximum Flow per Section l/min
PND2-4	4	250	280	4.8	7.6	10
PND2-6	6	250	280	7.2	11.4	15
PND2-8	8	250	280	9.6	15.2	20
PND2-11	11	250	280	13.2	20.9	27.5
PND2-14	14	250	280	16.8	26.6	35
PND2-16	16	200	230	19.2	30.4	40
PND2-20	20	200	230	24	38	50
PND2-22	22.5	200	230	27	42.75	56.3
PND2-26	26	200	230	31.2	49.4	65

N.B. Minimum speed is 1200 rpm, recommended 1900 rpm, Max 2500 rpm

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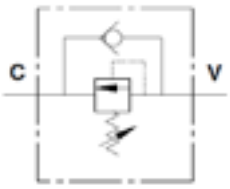
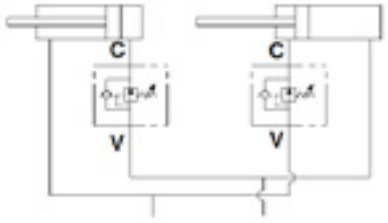
Inline Sequence Valves

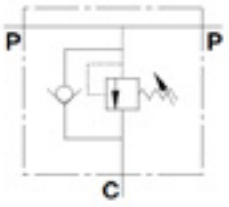
Inline Sequence Valve, Direct Acting VS2C
1/4” bsp 20 l/min up to 3/4” bsp 110 l/min

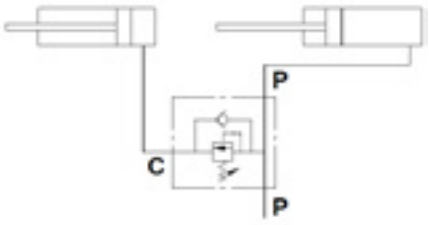




Part Number	bsp	Max Flow l/min	Max Pressure bar	Standard Pressure range adj. bar	Alternative Pressure ranges bar
VSL 1403	1/4”	20	350	20-210	10-90/70-350
VS2C 3/8”	3/8”	35	350	30-180	10-50/20-100/50-250/80-300
VS2C 1/2”	1/2”	70	350	30-180	10-50/20-100/50-250/80-300
VS2C 3/4”	3/4”	110	400	50-400	20-200

Inline Sequence Valve, Direct Acting VS2C 3V
Internal Pilot line. 3/8” bsp 40 l/min up to 1/2” bsp 70 l/min





Part Number	bsp	Max Flow l/min	Max Pressure bar	Standard Pressure range adj. bar	Alternative Pressure ranges bar
VS2C 3/8”-3V	3/8”	40	350	30-180	10-50/20-100/50-250/80-300
VS2C 1/2”-3V	1/2”	70	350	30-180	10-50/20-100/50-250/80-300

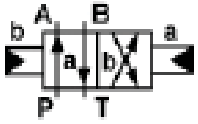
Inline Sequence Valve Type VSQL
Direct acting, Hex Body

Part Number	bsp	Max Flow l/min	Max Pressure bar	Pressure Range bar
VSQL 3/8”	3/8”	40	350	20-120
VSQL 1/2”	1/2”	80	350	20-230/230-350
VSQL 3/4”	3/4”	120	350	20-230/230-350

Reciprocating Valves & Cartridge Check Valves

Pressure Reciprocating valve CETOP 5 — PKV

Part Number	Cetop Mounting size	Flow Range l/min	Max Pressure bar	Standard Pressure range adj. bar
PKV-10	5	1 to 60	210	50-210



Flow Reciprocating valve CETOP 3 — PKV-6-T

Part Number	Cetop Mounting size	Flow Range l/min	Operating Pressure bar
PKV-6-T	3	3 to 30	50 to 210
PKV-6-T-G (OFFSET SPOOL)	3	3 to 30	50 to 210

PKV-6-T

PKV-6-T-G

Cartridge Check Valve — VUP/VUI

Disc type Part Number	bsp	Max Flow l/min	Max Pressure bar
VUP 120	1/2”	60	350
VUP 340	3/4”	80	350

Ball type Part Number	bsp	Max Flow l/min	Max Pressure bar
VUI 140	1/4”	20	350
VUI 380	3/8”	30	350
VUI 120	1/2”	50	350
VUI 340	3/4”	80	350

Body Only Size bsp	M/F Body	F/F Body
1/4”	61100087	61100092
3/8”	61100088	61100093
1/2”	61100089	61100094
3/4”	61100090	61100095
1”	61100091	n/a

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Non Return Check Valves

Inline Non Return / Check valve VUR

Female/Female ported	bsp	Max Flow l/min	Cracking Pressure bar	Max Pressure bar
VUR 180 SF1	1/8”	5	1	400
VUR 140 SP1	1/4”	20	1	350
VUR 140 SP3	1/4”	15	3	400
VUR 140 SP5	1/4”	20	5	350
VUR 140 SP6	1/4”	15	6	400
VUR 140 SP8	1/4”	20	8	350
VUR 380 SP1	3/8”	45	1	350
VUR 380 SP3	3/8”	30	3	400
VUR 380 SP5	3/8”	45	5	350
VUR 380 SP6	3/8”	30	6	400
VUR 380 SP8	3/8”	45	8	350
VUR 120 SP1	1/2”	70	1	350
VUR 120 SP3	1/2”	50	3	400
VUR 120 SP5	1/2”	70	5	350
VUR 120 SP6	1/2”	50	6	400
VUR 120 SP8	1/2”	70	8	350
VUR 340 SP1	3/4”	110	1	350
VUR 340 SP3	3/4”	90	3	350
VUR 340 SP4.5	3/4”	90	4.5	350
VUR 340 SP6	3/4”	90	6	350
VUR 340 SP8	3/4”	110	8	350
VUR 100 SP1	1”	160	1	350
VUR 100 SP3	1”	150	3	350
VUR 100 SP4.5	1”	150	4.5	350
VUR 100 SP6	1”	150	6	350
VUR 100 SP8	1”	160	8	350
VUR 114 SP1	1 1/4”	250	1	300
VUR 114 SP3	1 1/4”	200	3	350
VUR 114 SP4.5	1 1/4”	200	4.5	350
VUR 114 SP6	1 1/4”	200	6	350
VUR 112 SP1	1 1/2”	350	1	300
VUR 112 SP3	1 1/2”	300	3	350
VUR 112 SP4.5	1 1/2”	300	4.5	350
VUR 112 SP6	1 1/2”	300	6	350
VUR 200 SP1	2”	430	1	300

Inline Non Return / Check valve Male / Male body VUN / VUMM

Male/Male Ported	bsp	Max Flow l/min	Cracking Pressure bar	Max Pressure bar
VUN 140	1/4”	5	0.5 / 3 / 4.5 / 6	500
VUN 380	3/8”	15	0.5 / 3 / 4.5 / 6	500
VUN 120	1/2”	30	0.5 / 3 / 4.5 / 6	500
VUN 340	3/4”	50	0.5 / 3 / 4.5 / 6	500
VUN 100	1”	90	0.5 / 3 / 4.5 / 6	500
VUMM 1 1/4”	1 1/4”	240	0.5 / 3 / 4.5 / 6	320
VUMM 1 1/2”	1 1/2”	300	0.5 / 3 / 4.5 / 6	320
VUMM 2”	2”	650	0.5 / 3 / 4.5 / 6	320

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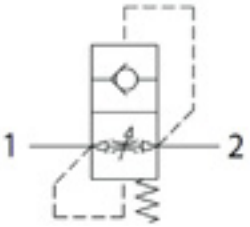
Hose Burst Valves

Hose Burst Cartridge, Complete Valve & Bodies — HBC / HBV

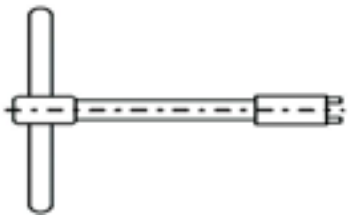
Complete Valve Part Number	bsp	Body Type	Max Flow l/min	Max Pressure bar
HBV-14 MF	1/4”	M/F	25	350
HBV-14 FF	1/4”	F/F	25	350
HBV-38 MF	3/8”	M/F	50	350
HBV-38 FF	3/8”	F/F	50	350
HBV-12 MF	1/2”	M/F	80	350
HBV-12 FF	1/2”	F/F	80	350
HBV-34 MF	3/4”	M/F	150	350
HBV-34 FF	3/4”	F/F	150	350
HBV-10 MF	1”	M/F	200	350



Cartridge Only	bsp	Max Flow l/min	Max Pressure bar
HBC-14	1/4”	25	350
HBC-38	3/8”	50	350
HBC-12	1/2”	80	350
HBC-34	3/4”	150	350
HBC-10	1”	180	350

Body Only Size bsp	M/F Body	F/F Body
1/4”	61100087	61100092
3/8”	61100088	61100093
1/2”	61100089	61100094
3/4”	61100090	61100095
1”	61100091	n/a

Insertion Tool Part Number	Cartridge Size bsp
61700001	1/4”
61700002	3/8”
61700003	1/2”
61700004	3/4”

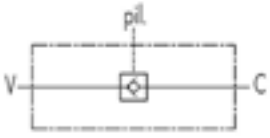


One way Restrictor Check Valves — VUN-H
Cracking Pressures available 0.5, 3, 4.5 or 6 bar
Precise restriction drilling in 0.1 mm increments

Male/Male Ported	bsp	Max Flow l/min	Cracking Pressure bar	Drilling diameter range (0.1mm increments) mm	Max Pressure bar
VUN-H 140	1/4”	5	0.5 / 3 / 4.5 / 6	0.5 - 2.2	500
VUN-H 380	3/8”	15	0.5 / 3 / 4.5 / 6	0.5 - 2.5	500
VUN-H 120	1/2”	30	0.5 / 3 / 4.5 / 6	0.5 - 3	500
VUN-H 340	3/4”	50	0.5 / 3 / 4.5 / 6	0.5 - 3	500
VUN-H 100	1”	90	0.5 / 3 / 4.5 / 6	0.5 - 3	500

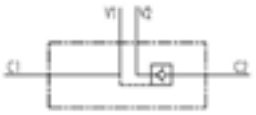
Single Pilot Operated Check Valves

Single Check valve, external Pilot — VRPE



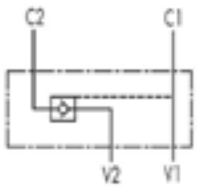
Part Number	bsp	Max Flow l/min	Max Pressure bar	Pilot Ratio
VRPE 140	1/4”	25	350	1:3.6
VRPE 380	3/8”	40	350	1:3.2
VRPE 120	1/2”	60	350	1:2.8
VRPE 340	3/4”	100	300	1:3.2
VRPE 100	1”	150	300	1:6.2

Single Check valve ‘L’ Ported — VBPSE L



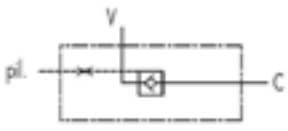
Part Number	bsp	Max Flow l/min	Max Pressure bar	Pilot Ratio
VBPSE 1/4” L4 VIE	1/4”	20	350	1:5.5
VBPSE 3/8” L4 VIE	3/8”	35	350	1:5.5
VBPSE 3/8” 4 VIE	3/8”	45	350	1:5
VBPSE 1/2” L4 VIE	1/2”	50	350	1:5.5
VBPSE 1/2” 4 VIE	1/2”	70	350	1:5
VBPSE 3/4” 4 VIE	3/4”	100	350	1:4

Single Check valve, Inline, internal Pilot — VBPSE A



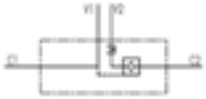
Part Number	bsp	Max Flow l/min	Max Pressure bar	Pilot Ratio
VBPSE 1/4” A	1/4”	20	350	1:5.5
VBPSE 3/8” A	3/8”	30	350	1:5.5
VBPSE 1/2” A	1/2”	55	350	1:4.5

Single Check valve, High Pilot ratio, internal Pilot — VBL/3



Part Number	bsp	Max Flow l/min	Max Pressure bar	Pilot Ratio
VBL/3 SE 1/4”	1/4”	20	350	1:8
VBL/3 SE 3/8”	3/8”	40	350	1:8
VBL/3 SE 1/2”	1/2”	70	350	1:7

Single Pilot Operated Check valve with Manual shut off — VBPSE C/RUB

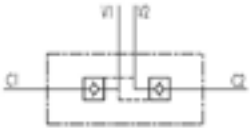


Part Number	bsp	Lever Side L or R	Max Flow l/min	Max Pressure bar	Pilot Ratio
VBPSE 1/4” L C/RUB	1/4”	L	20	350	1:5.5
VBPSE 1/4” R C/RUB	1/4”	R	20	350	1:5.5
VBPSE 3/8” L C/RUB	3/8”	L	30	350	1:5.5
VBPSE 3/8” R C/RUB	3/8”	R	30	350	1:5.5
VBPSE 1/2” L C/RUB	1/2”	L	50	350	1:5
VBPSE 1/2” R C/RUB	1/2”	R	50	350	1:5

Dual Pilot Operated Check Valves

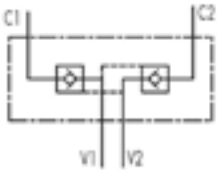
Dual Pilot operated Check valve, 'L' ported — VBPDE (L)

Part Number	bsp	Max Flow l/min	Max Pressure bar	Pilot Ratio
VBPDE 1/4" L	1/4"	20	350	1:5.5
VBPDE 3/8" L	3/8"	35	350	1:5.5
VBPDE 3/8"	3/8"	45	350	1:5
VBPDE 1/2" L	1/2"	50	350	1:5
VBPDE 1/2"	1/2"	70	350	1:4
VBPDE 3/4"	3/4"	100	300	1:4



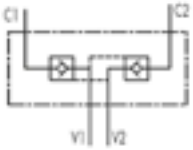
Dual Pilot Operated Check valve, Inline, internal Pilot — VBPDE A

Part Number	bsp	Max Flow l/min	Max Pressure bar	Pilot Ratio
VBPDE 1/4" A	1/4"	20	350	1:5.5
VBPDE 3/8" A	3/8"	30	350	1:5.5
VBPDE 1/2" A	1/2"	55	350	1:4.5
VBPDE 3/4" A	3/4"	100	350	1.3.7



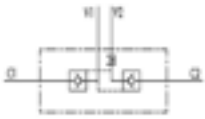
Dual Pilot Operated Check valve, for Tube mounting — VBPDE CC/CEXC

Part Number	bsp	Tube OD mm	Max Flow l/min	Max Pressure bar	Pilot Ratio
VBPDE 1/4" L2 CEXC-10L	1/4"	10	20	350	1:5.5
VBPDE 1/4" L2 CEXC	1/4"	12	20	350	1:5.5
VBPDE 3/8" L2 CC	3/8"	12	35	350	1:5.5
VBPDE 1/2" L2 CC	1/2"	15	50	350	1.5



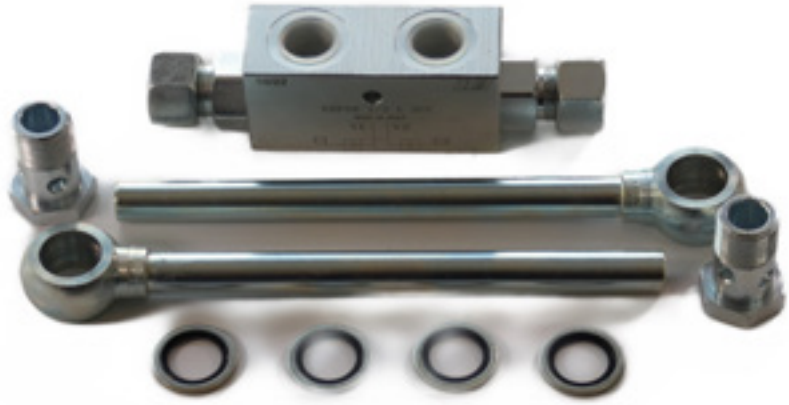
Dual Pilot Operated Check valve with Manual shut off — VBPDE C/RUB

Part Number	bsp	Lever Side L or R	Max Flow l/min	Max Pressure bar	Pilot Ratio
VBPDE 1/4" L C/RUB	1/4"	L	20	350	1:5.5
VBPDE 1/4" R C/RUB	1/4"	R	20	350	1:5.5
VBPDE 3/8" L C/RUB	3/8"	L	30	350	1:5.5
VBPDE 3/8" R C/RUB	3/8"	R	30	350	1:5.5
VBPDE 1/2" L C/RUB	1/2"	L	50	350	1:5
VBPDE 1/2" R C/RUB	1/2"	R	50	350	1:5



Pilot Operated Check Valve Tube Mounting Kits & Fittings

A Complete kit including the Dual Pilot Check valve, hydraulic tubing, banjo fittings with bolts and seals that fits directly to the Hydraulic cylinder



Complete Kit Part Number	Thread bsp	Min Length mm	Max Total Length mm	Tube Size mm	Max Flow l/min	Max Pressure bar	List of Components
HRDP 1/4”	1/4”	236	703	12	20	350	1x VBPDE 1/4 L2 CEXC 1x R1200 1x R1243500 2x R1350 4x 1/4” Bonded Seal
HRDP 3/8”	3/8”	260	786	12	35	350	1x VBPDE 3/8 L2CC 1x R1210 1x R1273500 2x R1360 4x 3/8” Bonded Seal
HRDP 1/2”	1/2”	284	600	15	50	350	1x VBPDE 1/2 L2CC 2x R1260 2x R1370 4x 1/2” Bonded Seal

Banjo Tube	Banjo Size bsp	Tube dia mm	Length of tube from centre line of Banjo mm
R1150	1/4”	12	38
R1200	1/4”	12	112
R1240	1/4”	12	205
R1243500	1/4”	12	505
R1160	3/8”	12	40
R1210	3/8”	12	106
R1250	3/8”	12	199
R1271300	3/8”	12	300
R1272400	3/8”	12	400
R1273500	3/8”	12	500
R1170	1/2”	15	44
R1220	1/2”	15	109
R1260	1/2”	15	202

Banjo Bolt	Banjo Size bsp	For tube kits
R1350	1/4”	12 mm
R1360	3/8”	12 mm
R1370	1/2”	15 mm

Nipple with Nut & Olive	Thread Size bsp	Nut and Olive Size
R1120	1/4”	12L
R1110	3/8”	12L
R1130	1/2”	12L
R1140	1/2”	15L

Banjo with Nut & Olive	Thread Size bsp	Nut and Olive Size
R1280	1/4”	12L
R1290	3/8”	12L
R1300	1/2”	15L

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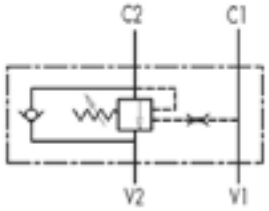
Single Overcentre Valves

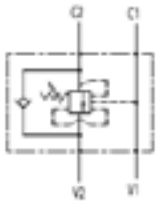
Single Overcentre valve, Inline, Internal Pilot — VBCL/VBCD SE/A

Part Number	bsp	Max Flow l/min	Max Pressure bar	Pilot Ratio
VBCL 140	1/4”	30	350	1:4.25
VBCL 380	3/8”	40	350	1:4.25
VBCL 120	1/2”	60	350	1:4.25
VBCD 3/4” SE/A	3/4”	95	350	1:5.5
VBCL 340	3/4”	120	350	1:6.2
VBCD 1” SE/A	1”	160	350	1:6.2



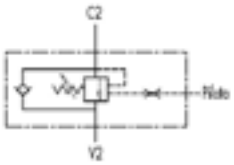
Single Overcentre valve, Closed centre applications — VBCLC/VBCDSECC

Part Number	bsp	Max Flow l/min	Max Pressure bar	Pilot Ratio
VBCL 140C	1/4”	30	350	1:4.25
VBCL 380C	3/8”	40	350	1:4.25
VBCL 120C	1/2”	60	350	1:4.25
VBCD 3/4” SE CC	3/4”	105	350	1:5.5



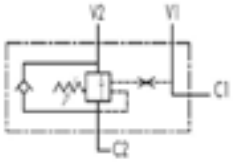
Single Overcentre valve, 3 port external pilot — VBCD SE 3 VIE

Part Number	bsp	Max Flow l/min	Max Pressure bar	Pilot Ratio
VBCD 3/8” SE 3 VIE	3/8”	40	350	1:4.5
VBCD 1/2” SE 3 VIE	1/2”	60	350	1:4.5



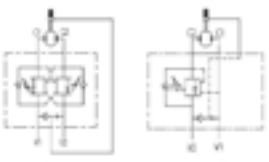
Single Overcentre valve, Banjo Mountable Internal Pilot Available as standard or with Brake release port — VBCD SE FLV

Part Number	bsp	Max Flow l/min	Max Pressure bar	Pilot Ratio
VBCD 3/8” SE/AFLV	3/8”	40	350	1:4.5
VBCD 1/2” SE/AFLV	1/2”	60	350	1:4.5



Single Overcentre valve for Hydraulic Motors — VBCDF SE.. OMP/OMR/OMS

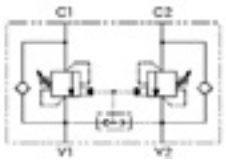
Part Number	bsp	Max Flow l/min	Max Pressure bar	Pilot Ratio
VBCDF SE OMP/OMR (SF)	1/2”	50	350	1:4.5
VBCDF SE OMS (SF)	1/2”	50	350	1:4.5



N.B. Schematic drawings are shown with Brake release, if required please use suffix ‘ SF’

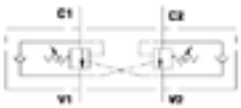
Dual Overcentre & Counterbalance Valves

Dual Counterbalance valve, Open centre application — VBCD



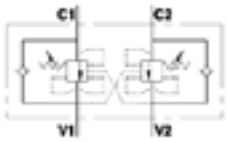
Part Number	bsp	Max Flow l/min	Max Pressure bar	Pilot Ratio
VBCD 140	1/4”	30	350	1:4.25
VBCD 380	3/8”	40	350	1:4.25
VBCD 120	1/2”	60	350	1:4.25
VBCD 340	3/4”	120	350	1:6.2

Dual Overcenter valve, open centre application — VBCD DE A



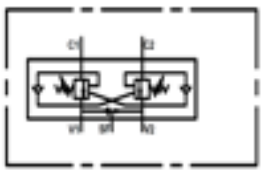
Part Number	bsp	Max Flow l/min	Max Pressure bar	Pilot Ratio
VBCD 1/4” DE A	1/4”	25	350	1:4.5
VBCD 3/8” DE A	3/8”	40	350	1:4.5
VBCD 1/2” DE A	1/2”	60	350	1:4.5
VBCD 3/4” DE A	3/4”	100	350	1:5.5
VBCD 1” DE A	1”	150	350	1:5.5

Dual Overcenter valve, Closed centre application — VBCD C



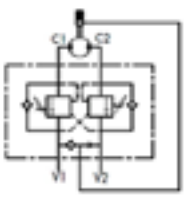
Part Number	bsp	Max Flow l/min	Max Pressure bar	Pilot Ratio
VBCD 140C	1/4”	30	350	1:4.25
VBCD 380C	3/8”	40	350	1:4.25
VBCD 120C	1/2”	60	350	1:4.25

Dual Overcentre valve with Brake Release — VBCD/DEA-SF



Part Number	bsp	Max Flow l/min	Max Pressure bar	Pilot Ratio
VBCD 3/8” DE A SF	3/8”	40	350	1:4.5
VBCD 1/2” DE A SF	1/2”	60	350	1:4.5

Dual Overcentre valve for Hydraulic Motor Type VBCDF DE.. OMP/OMR/OMS
Available as standard or with Brake release port



OMP/OMR Part Number	bsp	Max Flow l/min	Max Pressure bar	Pilot Ratio
VBCDF 1/2” DE OMP/OMR (SF)	1/2”	50	350	1:4.5
VBCDF 1/2” DE OMS (SF)	1/2”	50	350	1.4.5

N.B. Schematic drawings are shown with Brake release, if required please use suffix ‘ SF’

Monoblock Directional Control Valves

BM Series Monoblock Valves
Various Control options available

With flow rates from 25 l/min (1/4”) up to 190 l/min (1”), and options of actuation including.. manual lever, pneumatic control, remote cable (Single or Joystick), electric solenoid, lever and solenoid, hydraulic pilot, or cam operation we have the valve solution available for your application.

Our valve spools are ‘metered’ to give greater feel and control

All valves are supplied complete with levers and a Pressure relief valve as standard.

Model	Number of Spools	Max Flow (l/min)	Nominal Pressure (bar)	320Max Pressure on Ports	Service Ports	P&T ports Top	P & T Ports Side
BM25	1	25	250	320	3/8”	----	3/8”
BM35	1-6	35	250	320	3/8”	3/8”	3/8”
BM30	1	45	250	320	3/8”	----	3/8”
BM40	1-8	45	250	320	3/8”	3/8”	1/2”
BM45	1	60	250	320	1/2”	----	1/2”
BM50	1-8	60	250	320	1/2”	1/2”	1/2”
BM70	1-6	80	250	320	1/2”	1/2”	3/4”
BM100	1-3	100	250	320	3/4”	3/4”	3/4”
BM150	1	180	250	320	3/4”	3/4”	1”
BM180	1	190	250	320	1”	1”	1”

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BM25

3/8” bsp 25 l/min 1 lever
Lever, Electric Solenoid, Pneumatic, Hydraulic or Cable operation

Technical Characteristics	l/min	
Max Flow	25	
	bar	psi
Nominal Pressure	250	3600
Max Pressure on Ports	320	4700
Nominal Pressure Solenoid Operation EO	180	2600
Max Pressure in Tank Line	80	1100

Thread size	A & B	P	T	P2	T2
G	3/8”	—-	—-	3/8”	3/8”

Options	CODE
Relief Valve Plug	RVP
Microswitch	MS
Cam Operation	DO
Cable Operation	CO
Pneumatic Operation	MP
Electric Solenoid Operation	EO
Inverse Cable Operation	ICO
Safety Lever	MX

BM35

3/8” bsp 35 l/min 1 - 6 lever
Lever, Electric Solenoid, Pneumatic, Hydraulic or Cable operation

Technical Characteristics	l/min	
Max Flow	35	
	bar	psi
Nominal Pressure	250	3600
Max Pressure on Ports	320	4700
Max Pressure in Tank Line	80	1100

Thread size	A & B	P	T	P2	T2
G	3/8”	3/8”	3/8”	3/8”	3/8”

Options	CODE
Closed Centre Plug	CCP
High Pressure Carry Over	CO
Relief Valve Plug	RVP
Microswitch	MS
Pneumatic Operation	MP
Cam Operation	CO
Cable Operation	CO
Inverse Cable Operation	ICO
Joystick Cable Operation	JSCO
Safety Lever	MX

BM30

3/8” bsp 45 l/min Single Section valve, Side P & T ports only
Lever, Electric Solenoid, Pneumatic, Hydraulic or Cable operation

Technical Characteristics	l/min	
Max Flow	45	
	bar	psi
Nominal Pressure	250	3600
Max Pressure on Ports	320	4700
Max Pressure in Tank Line	80	1100

Thread size	A & B	P	T	P2	T2
G	3/8”	—-	—-	3/8”	3/8”

Options	CODE
Relief Valve Plug	RVP
Microswitch	MS
Cam Operation	DO
Cable Operation	CO
Pneumatic Operation	MP
Electric Solenoid Operation	EO
Inverse Cable Operation	ICO
Safety Lever	MX

BM40

3/8” & 1/2” bsp 45 l/min 1 - 8 lever
Lever, Electric Solenoid, Pneumatic, Hydraulic or Cable operation

Technical Characteristics	l/min	
Max Flow	45	
	bar	psi
Nominal Pressure	250	3600
Max Pressure on Ports	320	4700
Max Pressure in Tank Line	80	1100

Thread size	A & B	P	T	P2	T2
G	3/8”	3/8”	3/8”	3/8”	3/8”

Options	CODE
Closed Centre Plug	CCP
High Pressure Carry Over	CO
Relief Valve Plug	RVP
Microswitch	MS
Manual Lever Operation	MO
Joystick Operation	JS
Cam Operation	DO
Pneumatic Operation	MP
Hydraulic Oil Pilot Operation	HO
Cable Operation	CO
Inverse Cable Operation	ICO
Joystick Cable Operation	JSCO
Dual Threaded Rod Control	1DC
Safety Lever	MX

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BM45

1/2” bsp 60 l/min 1 lever
Lever, Electric Solenoid, Pneumatic, Hydraulic or Cable operation

Technical Characteristics	l/min	
Max Flow	60	
	bar	psi
Nominal Pressure	250	3600
Max Pressure on Ports	320	4700
Max Pressure in Tank Line	80	1100

Thread size	A & B	P	T	P2	T2
G	1/2”	—-	—-	1/2”	1/2”

Options	CODE
Relief Valve Plug	RVP
Micro Switch	MS
Manual Lever Operation	MO
Joystick Operation	JS
Cam Operation	DO
Pneumatic Operation	MP
Hydraulic Oil Pilot Operation	HO
Cable Operation	CO
Inverse Cable Operation	ICO
Joystick Cable Operation	JSCO
Dual Threaded Rod Control	1DC
Safety Lever	MX

BM50

1/2” bsp 60 l/min 1 - 8 lever
Lever, Electric Solenoid, Pneumatic, Hydraulic or Cable operation

Technical Characteristics	l/min	
Max Flow	60	
	bar	psi
Nominal Pressure	250	3600
Max Pressure on Ports	320	4700
Max Pressure in Tank Line	80	1100

Thread size	A & B	P	T	P2	T2
G	1/2”	—-	—-	1/2”	1/2”

Options	CODE
Closed Centre Plug	CCP
High Pressure Carry Over	CO
Relief Valve Plug	RVP
Microswitch	MS
Manual Lever Operation	MO
Joystick Operation	JS
Cam Operation	DO
Pneumatic Operation	MP
Hydraulic Oil Pilot Operation	HO
Cable Operation	CO
Inverse Cable Operation	ICO
Joystick Cable Operation	JSCO
Dual Threaded Rod Control	1DC
Safety Lever	MX

BM70

1/2” & 3/4” bsp 80 l/min 1 - 6 lever
Lever, Electric Solenoid, Pneumatic, Hydraulic or Cable operation

Technical Characteristics	l/min	
Max Flow	80	
	bar	psi
Nominal Pressure	250	3600
Max Pressure on Ports	320	4700
Max Pressure in Tank Line	80	1100

Thread size	A & B	P	T	P2	T2
G	1/2”	1/2”	1/2”	3/4”	3/4”

Options	CODE
Closed Centre Plug	CCP
High Pressure Carry Over	CO
Relief Valve Plug	RVP
Micro Switch	MS
Manual Lever Operation	MO
Joystick Operation	JS
Cam Operation	DO
Pneumatic Operation	MP
Hydraulic Oil Pilot Operation	HO
Cable Operation	CO
Inverse Cable Operation	ICO
Joystick Cable Operation	JSCO
Dual Threaded Rod Control	1DC
Safety Lever	MX

BM100

3/4” bsp 100 l/min 1-4 lever
Lever, Electric Solenoid, Pneumatic, Hydraulic or Cable operation

Technical Characteristics	l/min	
Max Flow	100	
	bar	psi
Nominal Pressure	250	3600
Max Pressure on Ports	320	4700
Max Pressure in Tank Line	80	1100

Thread size	A & B	P	T	P2	T2
G	3/4”	3/4”	3/4”	3/4”	3/4”

Options	CODE
Closed Centre Plug	CCP
High Pressure Carry Over	CO
Relief Valve Plug	RVP
Micro Switch	MS
Manual Lever Operation	MO
Joystick Operation	JS
Cam Operation	DO
Pneumatic Operation	MP
Hydraulic Oil Pilot Operation	HO
Cable Operation	CO
Inverse Cable Operation	ICO
Joystick Cable Operation	JSCO
Dual Threaded Rod Control	1DC
Safety Lever	MX

BM150

3/4” & 1” bsp 180 l/min Single lever valve
Option for integrated Pressure relief and anti cavitation valves

Technical Characteristics	l/min	
Max Flow	180	
	bar	psi
Nominal Pressure	250	3600
Max Pressure on Ports	320	4700
Max Pressure in Tank Line	80	1100

Thread size	A & B	P	T	P2	T2
G	3/4”	3/4”	3/4”	1”	1”

Options	CODE
Closed Centre Plug	CCP
High Pressure Carry Over	CO
Relief Valve Plug	RVP
Manual Lever Operation	MO
Pneumatic Operation	MP
Hydraulic Oil Pilot Operation	HO
Cable Operation	CO
Inverse Cable Operation	ICO
Service Port Pressure Relief Valves	VL
Anti-Cavitation valves	VC
Service Port Relief & Anti Cavitation Valves	VLC

BM180

1” bsp 190 l/min Single lever valve
Option for integrated Pressure relief and anti cavitation valves

Technical Characteristics	l/min	
Max Flow	190	
	bar	psi
Nominal Pressure	250	3600
Max Pressure on Ports	320	4700
Max Pressure in Tank Line	80	1100

Thread size	A & B	P	T	P2	T2
G	1”	1”	1”	1”	1”

Options	CODE
Closed Centre Plug	CCP
High Pressure Carry Over	CO
Relief Valve Plug	RVP
Manual Lever Operation	MO
Pneumatic Operation	MP
Hydraulic Oil Pilot Operation	HO
Cable Operation	CO
Inverse Cable Operation	ICO
Service Port Pressure Relief Valves	VL
Anti-Cavitation valves	VC
Service Port Relief & Anti Cavitation Valves	VLC

Log Splitter Valves

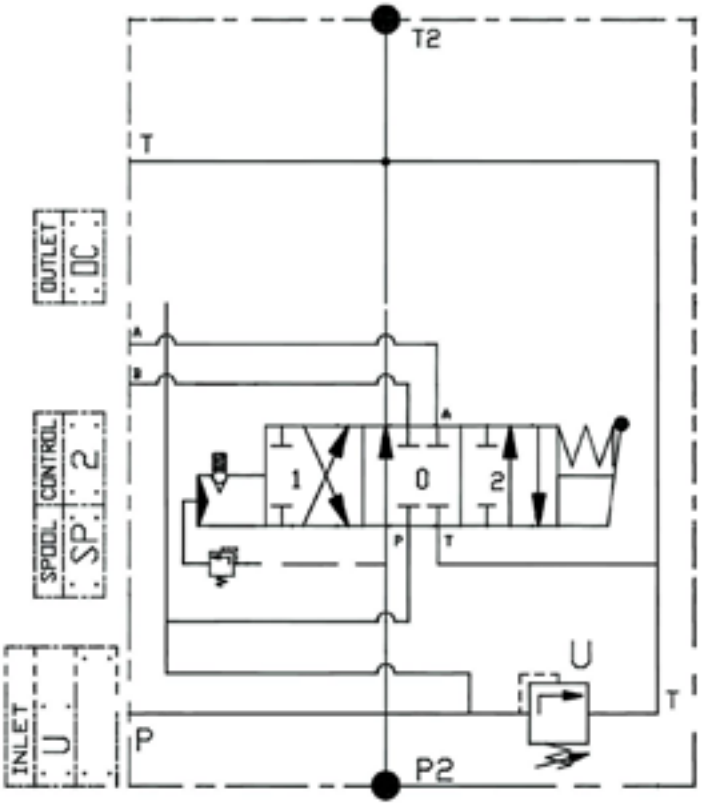
Available in various sizes with Kick off and regenerative function if required

Kick off valves

Single lever valves with kick out work when the operator moves the lever to send the cylinder out to split a log, then moves the lever to retract the cylinder after the log is split, the cylinder will return to its full retraction and then the valve lever will 'automatically' return to the neutral rest position. The 'kick out' pressure in the valve is preset to 70 bar. The valves can also be supplied with a regenerative spool giving faster extension speed for the cylinder.

Valve with Kick off function	Maximum flow l/min	Kick off Pressure bar	Maximum Pressure bar	P&T Ports bsp	A&B Ports bsp
BM30 (16-18) NOVNR GK/MO SPKOA2KO(70)	40	70	300	3/8"	3/8"
BM50/1 GK MO SOKOA2KO(70)	60	70	300	1/2"	1/2"
BM100 ZB NOVNR GK/MOA1KO	100	70	300	3/4"	3/4"

Valve with Kick off and regenerative spool	Maximum Inlet flow l/min	Maximum Regenerative flow l/min	Kick off Pressure bar	Maximum Pressure bar	P&T Ports bsp	A&B Ports bsp
BM45 ZB NOVNR GKW/MO Z26KO	60	70	70	300	1/2"	1/2"
BM100 ZB NOVNR GK/MO Z26KO	100	100	70	300	3/4"	3/4"



BM30 with Kick Off

Rotary Spool Valves

Single rotary lever valves in various sizes

MR Rotary lever valves

The rotary lever can be moved to various positions and this regulates the flow to the actuator
Our Rotary valves are ideal for Marine applications, for example the
flow rate can be changed to suit the conditions of the sea.
A high quality 'Dacromet' surface treatment is applied as standard to prevent corrosion

BM45 MR 1/2" bsp — 45 l/min

Technical Characteristics	l/min	
Max Flow	45	
	bar	psi
Nominal Pressure	250	3600
Max Pressure on Ports	300	4410
Max Pressure in Tank Line	80	1100

Thread size	A & B	P	T	P2	T2
G	1/2"	—-	—-	1/2"	1/2"

BM70 MR 1/2 & 3/4" bsp — 65 l/min

Technical Characteristics	l/min	
Max Flow	65	
	bar	psi
Nominal Pressure	250	3600
Max Pressure on Ports	300	4410
Max Pressure in Tank Line	80	1100

Thread size	A & B	P	T	P2	T2
G	1/2"	1/2"	1/2"	3/4"	3/4"

Rotary Spool Valves

Single rotary lever valves in various sizes

BM100 MR 3/4” bsp 90 l/min

Technical Characteristics	l/min	
Max Flow	90	
	bar	psi
Nominal Pressure	250	3600
Max Pressure on Ports	300	4410
Max Pressure in Tank Line	80	1100

Thread size	A & B	P	T	P2	T2
G	3/4”	3/4”	3/4”	3/4”	3/4”

BM150 MR 3/4” & 1” bsp 140 l/min

Technical Characteristics	l/min	
Max Flow	140	
	bar	psi
Nominal Pressure	250	3600
Max Pressure on Ports	300	4410
Max Pressure in Tank Line	80	1100

Thread size	A & B	P	T	P2	T2
G	3/4””	3/4”	3/4”	1”	1”

BM180 MR 1” bsp 170 l/min

Technical Characteristics	l/min	
Max Flow	170	
	bar	psi
Nominal Pressure	250	3600
Max Pressure on Ports	300	4410
Max Pressure in Tank Line	80	1100

Thread size	A & B	P	T	P2	T2
G	1””	1	1”	1”	1”

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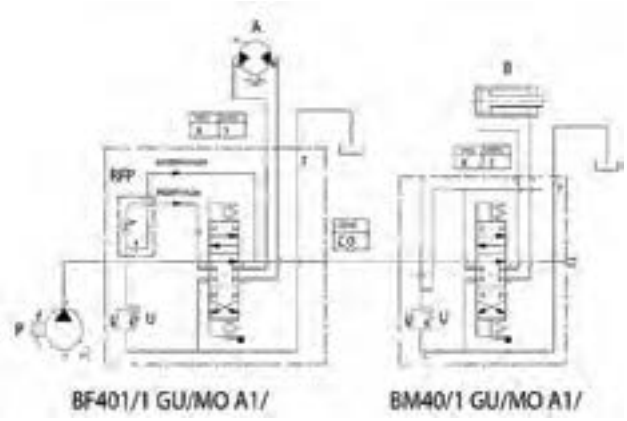
Monoblock With Priority Adjustable Flow Control

The BF range of mono block valves derive from the BM series. They differ from them by having a built in priority adjustable and pressure compensated flow regulator (RFP) or two way Integrated pressure compensated flow regulator (RFS) in the Inlet of the valve.

With the RFP version the exceeding flow is recuperated into the system and allows the simultaneous use of the two spools, the first spool has the priority flow (PF) and the second spool the exceeding flow (EF). An RFS version is also available where the exceeding flow (EF) goes to the tank.

An important factor in the BF valves is that the flow regulator is only in function when a spool receiving the priority flow is actuated, on the contrary the oil goes to the tank without the flow regulator being actuated. Therefore without loss of flow or heating. The standard downstream spools get the exceeding flow when the priority spool is operated and the entire oil flow when it is not operated. One or more Priority spools are available in a valve.

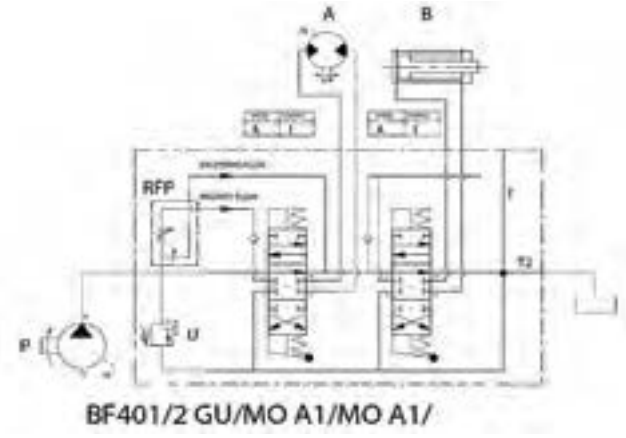
Valve Model	Number Spools	Max Flow l/min	Max Pressure bar	Service Ports A & B bsp	P & T Ports Side (Top)
BF201/1	1 TO 5	25	250	1/4”	3/8” (1/4”)
BF401/1	1 TO 6	45	250	3/8”	1/2” (3/8”)
BF701/1	1 TO 5	80	250	1/2”	3/4” (1/2”)
BF901/1	1	120	250	3/4”	3/4” (3/4”)



Example 1.

One single BF401/1 valve with a high pressure carry over supplying a single BM40/1 valve.

The flow to the motor (A) is regulated by the priority valve (PF) by means of the adjustment knob. The exceeding flow (EF) is recuperated so that it can be supplied through the high pressure carry over to the downstream single lever valve.
When the 1st valve is not in function the 2nd valve will have the full flow, and when the 1st valve ie Motor (A) is working the 2nd valve and cylinder (B) will work with the excess flow available.



Example 2.

A two lever BF401/2 valve working a motor and cylinder.

The flow to the motor (A) is regulated by the priority valve (PF) by means of the adjustment knob. The exceeding flow (EF) is recuperated so that it can be used to work the cylinder (B) at the same.
When the motor (A) is not in function, Cylinder (B) will have the full flow of the pump.

One advantage of this valve system is when the motor (A) is in function and the cylinder (B) is worked the motor will not drop in rotation speed..

For Spools and control options please see pages 49

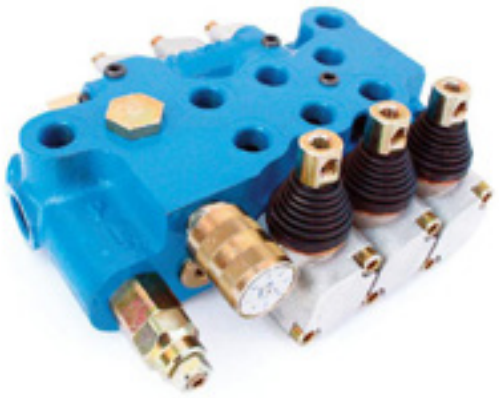
Monoblock With Priority Adjustable Flow Control

BF201

1/4” bsp 25 l/min 1 - 5 Spool

Technical Characteristics	l/min	
Nominal Flow	17	
Max Flow	25	
	bar	psi
Nominal Pressure	250	3600
Max Pressure on Ports	320	4700
Max Pressure in Tank Line	80	1100

Thread size	A & B	P	T	P2	T2
G	1/4”	1/4”	3/8”	3/8”	3/8”



BF401

3/8” bsp 45 l/min 1 - 6 Spool

Technical Characteristics	l/min	
Nominal Flow	35	
Max Flow	45	
	bar	psi
Nominal Pressure	250	3600
Max Pressure on Ports	320	4700
Max Pressure in Tank Line	80	1100

Thread size	A & B	P	T	P2	T2
G	3/8”	3/8”	3/8”	1/2”	1/2”

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Monoblock With Priority Adjustable Flow Control

BF701

1/2” bsp 80 l/min 1 - 5 Spool

Technical Characteristics	l/min	
Nominal Flow	70	
Max Flow	80	
	bar	psi
Nominal Pressure	250	3600
Max Pressure on Ports	320	4700
Max Pressure in Tank Line	80	1100

Thread size	A & B	P	T	P2	T2
G	1/2”	1/2”	1/2”	3/4”	3/4”

BF901

3/4” bsp 120 l/min Single Spool

Technical Characteristics	l/min	
Nominal Flow	90	
Max Flow	120	
	bar	psi
Nominal Pressure	250	3600
Max Pressure on Ports	320	4700
Max Pressure in Tank Line	80	1100

Thread size	A & B	P	T	P2	T2
G	3/4”	3/4”	3/4”	3/4”	3/4”

Sectional Control Valves BC

Flow rates from 35 l/min (3/8” bsp) up to 180 l/min (1”bsp)
Various models with options of Lever, Electric Solenoid,
Manual Lever and Dual Electric Solenoid, Pneumatic,
Hydraulic Oil Pilot, and Cable control

BC35 Sectional Valve

3/8” bsp ..... 35 l/min..... 1-10 lever
Lever, Lever with Dual Electric Solenoid operation,
Pneumatic, Hydraulic or Cable operation

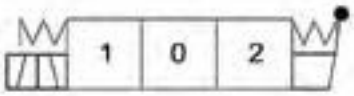
Technical Characteristics	l/min	
Max Flow	35	
	bar	psi
Nominal Pressure	200	2900
Max Pressure on Ports	250	3600
Max Pressure in Tank Line	15	220

Thread size	A & B	P	T	P2	T2
G	3/8”	3/8”	3/8”	3/8”	3/8”

Options	CODE
High Pressure Carry Over	CO
Relief Valve Plug	RVP
Manual lever & electric solenoid operation	MO EDO
Manual lever operation	MO
Closed centre plug	CCP

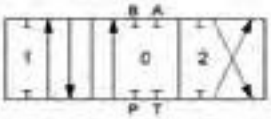
ACTUATORS

MO...EDO
Combined push-pull and manual actuato



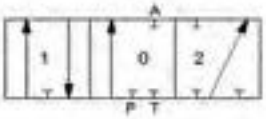
SPOOL TYPES

AE



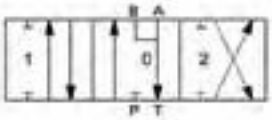
4-WAY / 3-POSITION SPOOL. Provides control of double-acting cylinders or bi-directional hydraulic motors. In position 0 work ports are blocked.

BE



3-WAY / 3-POSITION SPOOL. Provides control of single-acting cylinders or start and stop of uni-directional hydraulic motors. In position 0 work port is blocked. B port is plugged.

DE



4-WAY / 3-POSITION SPOOL, OPEN CENTER (MOTOR SPOOL). Provides control of double acting cylinders or bi-directional hydraulic motors. Allows a cylinder to float or a motor to wheel free when the spool is in position 0. Work ports are open to the tank port when the spool is in position 0.

BC40 Sectional Valve

3/8” & 1/2” bsp 45 l/min 1 - 10 lever

Lever, Electric Solenoid, Pneumatic, Hydraulic or Cable operation

Technical Characteristics	l/min	
Max Flow	45	
	bar	psi
Nominal Pressure	250	3600
Max Pressure on Ports	320	4700
Max Pressure in Tank Line	40	550

Thread size	A & B	P	T	P2	T2
G	3/8”	1/2”	1/2”	1/2”	1/2”

Options	CODE
High Pressure Carry Over	CO
Relief Valve Plug	RVP
Closed Centre Plug	CCP
Microswitch	MS
Manual Lever Operation	MO
Joystick Operation	JS
Pneumatic Operation	MP
Cable Operation	CO
Inverse Cable Operation	ICO
Joystick Cable Operation	JSCO

BC60 Sectional Valve

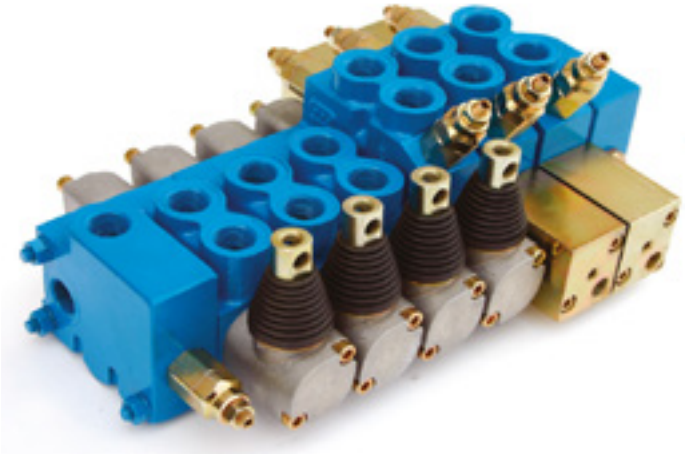
1/2” bsp 70 l/min 1 - 10 lever

Lever, Electric Solenoid, Pneumatic, Hydraulic or Cable operation

Technical Characteristics	l/min	
Max Flow	70	
	bar	psi
Nominal Pressure	250	3600
Max Pressure on Ports	320	4700
Max Pressure in Tank Line	40	550

Thread size	A & B	P	T	P2	T2
G	1/2”	1/2”	1/2”	1/2”	1/2”

Options	CODE
High Pressure Carry Over	CO
Relief Valve Plug	RVP
Closed Centre Plug	CCP
Microswitch	MS
Manual Lever Operation	MO
Joystick Operation	JS
Pneumatic Operation	MP
Hydraulic Pilot Operation	HO
Cable Operation	CO
Inverse Cable Operation	ICO
Joystick Cable Operation	JSCO



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BC150 Sectional Valve

3/4” & 1” bsp 180 l/min 1 - 10 lever

Lever, Pneumatic, Hydraulic or Cable operation

Technical Characteristics	l/min	
Max Flow	180	
	bar	psi
Nominal Pressure	220	3200
Max Pressure on Ports	300	4400
Max Pressure in Tank Line	40	550

Thread size	A & B	P	T	P2	T2
G	3/4”	3/4”	3/4”	1”	1”

Options	CODE
High Pressure Carry Over	CO
Relief Valve Plug	RVP
Closed Centre Plug	CCP
Manual Lever Operation	MO
Joystick Operation	JS
Pneumatic Operation	MP
Inverse Cable Operation	ICO

High Pressure Carry Over, Closed Centre & Relief Valve Plugs

High Pressure Carry over Plug (CO)

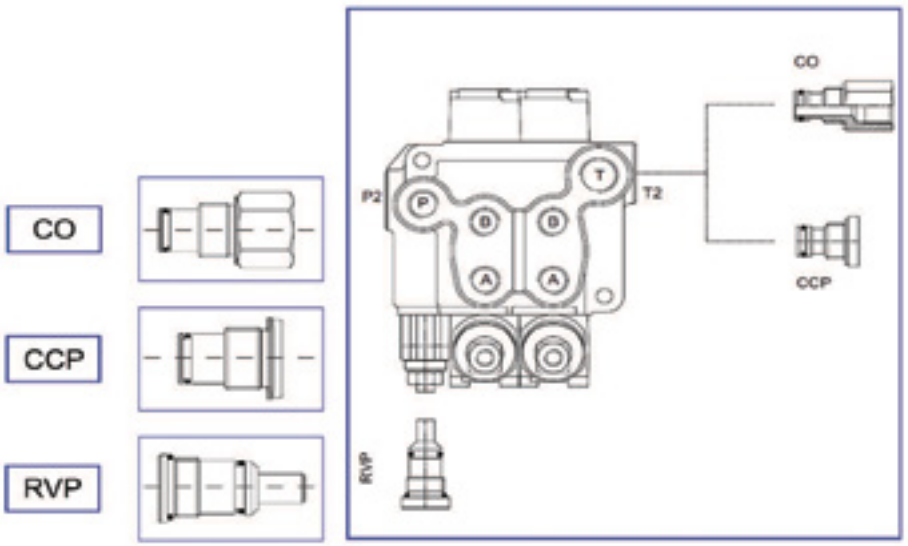
The CO plug is fitted into the side tank port of the spool valve which enables the pressure and flow, when the valve is not in function, to be carried to another downstream valve or actuator .When used with the BF range of valves that have built in flow controls the plug will also enable the excess flow not used by the flow regulator to be carried downstream when the valve is in function and the full pump flow when the valve is not in function. N.B. A tank line must be taken from the top tank port of every valve in the system that has a CO plug fitted.

Closed Centre Plug (CCP)

A closed centre plug is fitted into the side tank port of the spool valve to make the valve closed centre, i.e. the pump flow will not travel through the spool valve back to tank but will stop inside the valve, i.e. ‘dead head’ the pump flow. N.B. Closed centre plugs cannot be used with the BF range of valves & care must be taken to ensure the pressure relief valve does not open to let the oil through to the tank if it is set below the pump supply pressure. A tank line must still be taken from the top tank port.

Relief Valve Plug (RVP)

A Relief valve plug is fitted in place of a pressure relief valve when it is removed from the valve.



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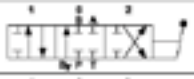
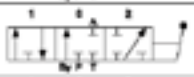
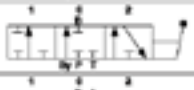
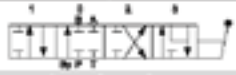
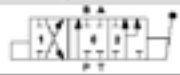
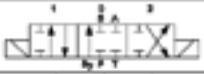
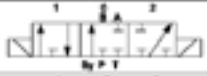
Spool & Control options

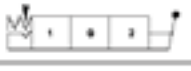
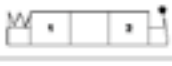
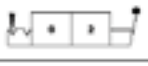
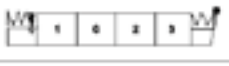
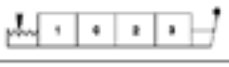
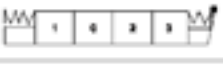
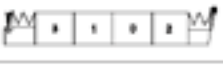
All valves are supplied complete with levers and 3 position spring return to neutral control unless otherwise stated

COD	CIRCUITO SPOOL TYPE	BM10	BM20 BF20 BC20 BM25 BM35	BM30 BM40 BF40 BC40 BM45 BM50 BC50	BM70 BC70 BF70 BM100	BM150 BC150 BM180	BC35	BC60
A		●	●	●	●	●		
B		●	●	●	●	●		
C		●	●	●	●	●		
D		●	●	●	●	●		
E		●	●	●	●	●		
F		●	●	●	●	●		
K		●	●	●				
L				●	●			
M		●	●	●				
R		●		●	●			
Y			●	●				
Z		●		●	●			
AE			●	●	●		●	●
BE			●	●	●			●
DE			●	●	●		●	●

12		12 VOLT DC			●	●		●	●
24		24 VOLT DC		●	●	●		●	●

COD	VALVOLA MAX RELIEF VALVE	CAMPO DI TARATURA CALIBRATION FIELD bar (psi)	TARATURA STANDARD STANDARD CALIBRATION bar (psi)	BM10	BM20 BF20 BC20 BM25	BM30 BM40 BF40 BC40 BM45 BC50	BM70 BF70 BC70	BM150 BC150	BC35	BC60
X		10 - 60 (140 - 1300)	70 (1015)	●	●	●	●	●	●	●
U		80 - 250 (1300 - 3626)	140 (2030)	●	●	●	●	●	●	●
K		150 - 350 (2175 - 4351)	200 (2900)	●	●	●	●	●	●	●

Taratura standard effettuata con pompa a 5l/min.
Standard calibration made with a 5 l/min. pump

COD	POSIZIONATORE SPOOL CONTROL	BM10	BM20 BF20 BC20 BM25 BM35	BM30 BM40 BF40 BC40 BM45 BM50 BC50	BM70 BC70 BF70 BM100	BM150 BC150 BM180	BC35	BC60
1		●	●	●	●	●		
2		●	●	●	●	●		
3		●	●	●	●	●		
4		●	●	●	●	●		
5		●	●	●	●	●		
6		●	●	●	●	●		
7		●	●	●	●	●		
8		●	●	●	●	●		
9		●	●	●	●	●		
10		●	●	●	●	●		
11		●	●	●				
12				●	●			
13			●	●				
14				●	●			
16		●	●	●				
1E			●	●	●		●	●
1EA			●	●	●			
1EB			●	●	●			

Control Cables

Each Single cable consists of the Lever,
Cable & Attachment Kit.
A Joystick cable assembly will consist of a Joystick control, 2 Cables & 2 Attachment kits

Levers	Part Number
Single Lever	3047
Single Lever with anti-reverse lock	3076
Single Lever with centre position lock	3077
Joystick Controller with central lock	6000
Joystick Controller with 1 electric switch and central lock	3389
Joystick Controller with 2 electric switch and central lock	3369

Cables	
1.0 Metre Cable	3056/1.00
1.5 Metre Cable	3056/1.50
2.0 Metre Cable	3056/2.00
2.5 Metre Cable	3056/2.50
3.0 Metre Cable	3056/3.00
3.5 Metre Cable	3056/3.50
4.0 Metre Cable	3056/4.00
4.5 Metre Cable	3056/5.00

Attachment Kits	
BLB BM35/BC35/BF201	20KIT
BLB BM30/BM40/BM50/BC40/BC60/BF401	212042
BLB BM70/BM100/BF701	212065
BLB BM150/BM180/BC150	212044
DINOIL	212042/D
Walvoil SD4/5/6	211623
Walvoil SD8	212059
Walvoil SD10/11/14	212053
Kontak HCD3/HCD10	211624
Hydrocontrol HCD2	211710
Hydrocontrol HCD6/HCD16	212057
AMI 300	212055
Salami VD06	212056

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KPF Proportional Valve

Proportional Electro-Hydraulic Valve & Control System

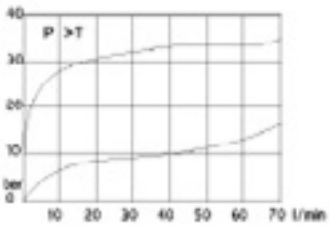
Max Flow 70 l/min

Max Pressure 320 bar

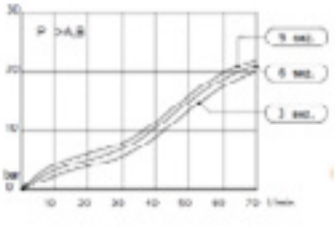
1 to 10 Sections

PRESSURE DROP DIAGRAMS

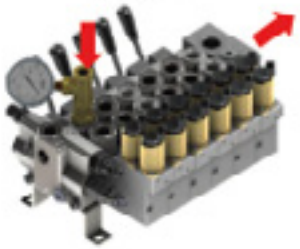
P → T

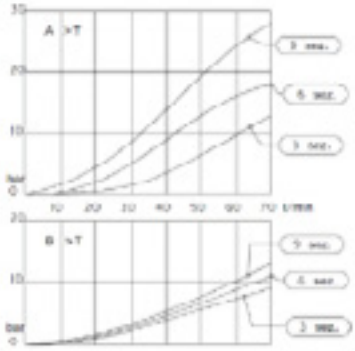


P → A/B



A/B → T





PLEASE NOTE: Compensated preload

All data and diagrams contained in this catalogue were tested with VG32 oil at a temperature of 50°C.

ELECTRIC ACTUATOR SPECIFICATIONS

CHARACTERISTICS	SI
Electro-hydraulic actuator voltage	12 V / 24 [V]
Power used	18 [W]
Type of connector	AMP Junior Power Timer
Max voltage 12V/24V	1,5 / 0,75 [A]
Min voltage 12V / 24V	0,6 / 0,3 [A]
Coil resistance at 20°C 12V / 24V	5,3 Ω / 21,2 [Ω]
Protection level	IP65/IPX7
Insulation class	H
Max pressure	50 [bar]
Max supply pressure	35 [bar]
Working flow	Self-regulated by the system
Use	ED 100%
PWM frequency	100 [KHz]
Weight	~230 [g]
Installation - Position	All

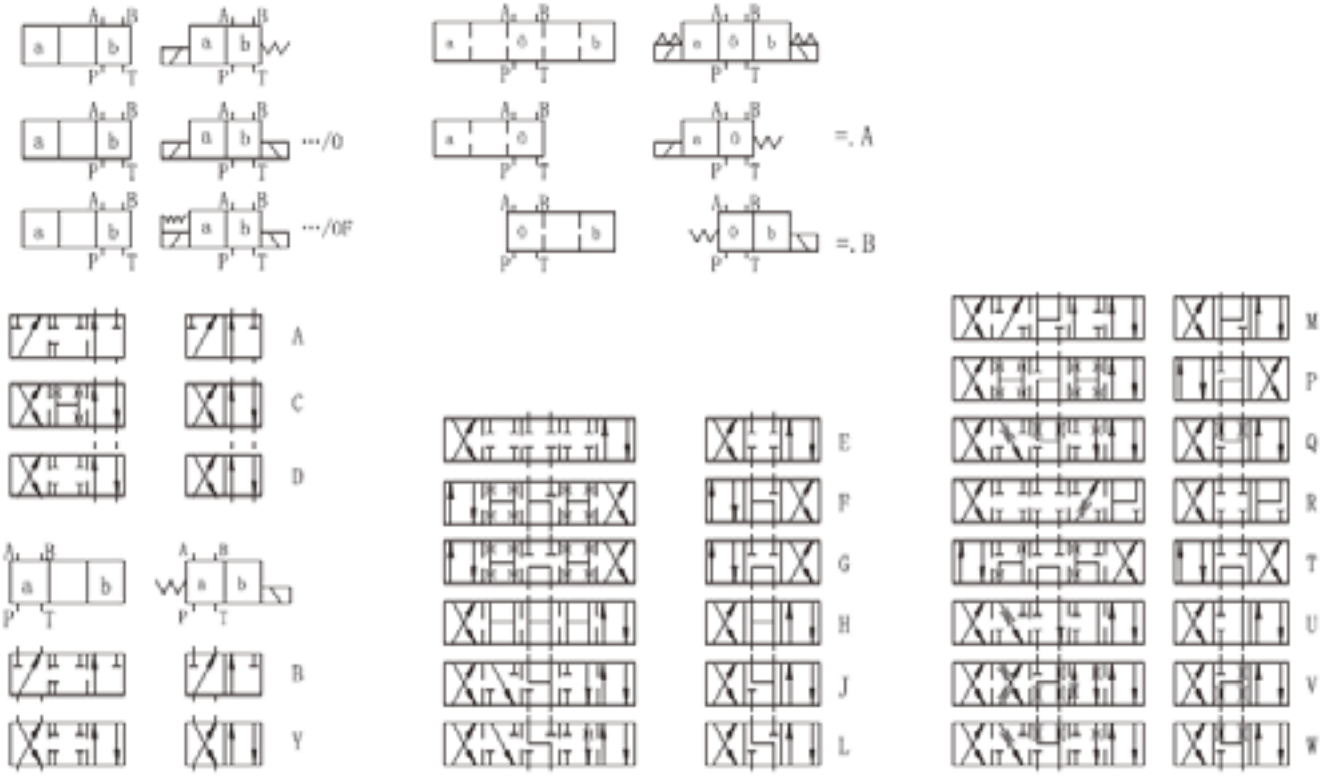
CETOP 3 VALVES

CETOP 3 Valve 60 l/min / 315 bar — DWG6

Available in a wide range of spools with a Phosphated casting

Technical Characteristics	l/min	
Max Flow	60	
	bar	psi
Max operating Pressure, ports A, B & P	315	4630
Max Pressure in Tank Line, port T	160	2350
Weight 4/3 valve	2.2	
Weight 4/2 valve	1.6	

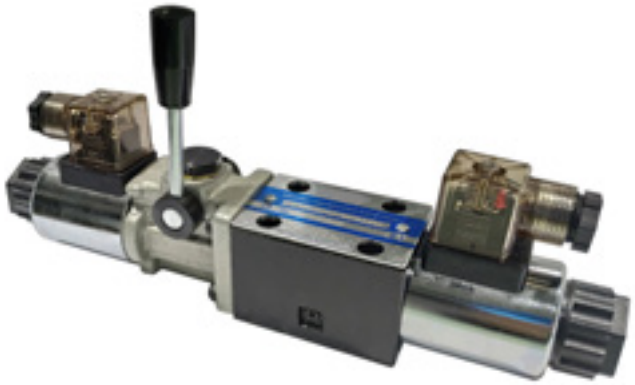
Spool types



CETOP 3 Valves c/w manual lever

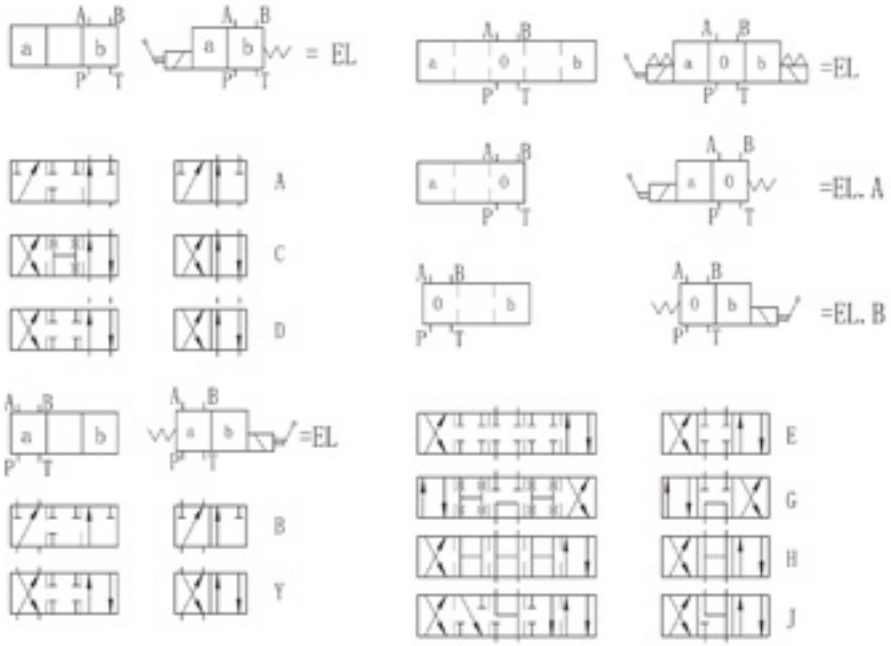
CETOP 3 Valve c/w emergency control lever — 4DWG6-EL

60 l/min / 315 bar



Technical Characteristics	l/min	
Max Flow	60	
	bar	psi
Max operating Pressure, ports A, B & P	315	4630
Max Pressure in Tank Line, port T	160	2350
Weight 4/3 valve	2.8	
Weight 4/2 valve	2.2	

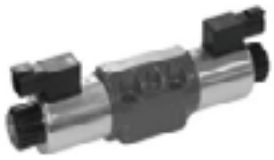
Spool types



CETOP 3 Valve 80 l/min / 350 bar — 5KL-6

4/2, 4/3 WAY DIRECTIONAL VALVE KV-5KL

- NG 6
- Up to 350 bar *[5 076 PSI]*
- Up to 80 L/min *[21 GPM]*
- Connection diagram and connecting dimensions ISO 4401
- 5 chamber model with good spool guidance
- Optimized flow paths for low losses of pressure
- Low internal leakage
- Wet pin solenoid with interchangeable coil
- Manual emergency control
- Fulfil EMC (89/336/EEC)
- Packaging in carton box



KV-4/3-5KL-6

Operation

Directional valves type KV with direct solenoid operation control the direction of the hydraulic medium flow.

A valve basically consists of a housing (1), one or two solenoids (2a, 2b), control spool (3) and return spring (4).

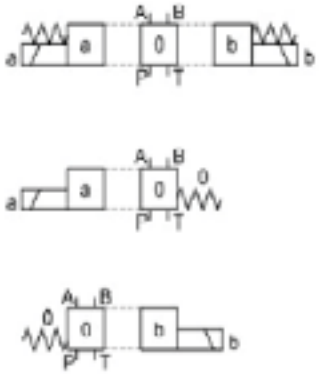
In 4/3 way directional valves the centre position of the spool is defined by 4 return springs which hold the spool in the neutral position. The change over to the operating position (a) or (b) is done by energizing the solenoids (2a/ 2b) respectively, whereby the solenoid plunger acts on the control spool (3) via the operating pin (5), thus clearing the corresponding flow ways and establishing relevant links between ports P, A, B and T. When the solenoid (2a/ 2b) is deenergized, the control spool (3) is returned to neutral position by the return spring (4).
In 4/2 way directional valves the centre position of the spool is defined by return spring on the opposite side of the solenoid (2a or 2b).

Change-over of the control spool (3) can be done manually by pressing the pin (6) for emergency manual override in the solenoid core.

Solenoid coil is fastened to the solenoid core (7) by retaining nut (8). Position of the coil (orientation of the connector) is pre-defined by the positioning hole on the valve housing and by the fixation pin (9) on the coil.

Hydraulic symbols

Spool types



Hydraulic			
Size			6
Flow rate		L/mn *[GPM]*	see ΔP-Q curves
Operating pressure	Ports A, B, P	bar *[PSI]*	350 *[5 076]*
	Port T	bar *[PSI]*	250 *[3 625]*
Viscosity range		mm^2/s *[SUS]*	15 to 380 *[69.5 to 1 760]*
Oil temperature range		°C *[°F]*	-20 to +70 *[-4 to 158]*
Filtration		ISO 4406:1999	19/17/14
Mass	4/2	kg *[lb]*	1.6 *[3.6]*
	4/3		2,2 *[4.9]*
Mounting position			Optional
Electrical			
Supply voltage	Direct	V	12, 24, 48
	Alternating		110, 230
Max. allowable voltage variation			+/- 10 %
Power		W	31
Switch-on time*		ms	200 to 260
Switch-off time*		ms	100 to 120
Switching frequency		1/h	15 000
Ambient temperature		°C *[°F]*	to 50 *[122]*
Coil temperature		°C *[°F]*	to 180 *[356]*
Duty cycle			Continuous
Protection class to LN 50529 / IEC 60529			
	- Connector EN 175301 - Connector AMP - Connector Deutsch		- IP65 - IP66 - IP69K

* Measured on unloaded valve

Poclain Hydraulics
CETOP 3 Proportional Valves

CETOP 3 Proportional Valve 30 l/min / 350 bar — KVP

4/2, 4/3 WAY DIRECTIONAL PROPORTIONAL VALVE KVP

- NG 6
- Up to 350 bar *[5 076 PSI]*
- Up to 30 L/min *[7.9 GPM]*

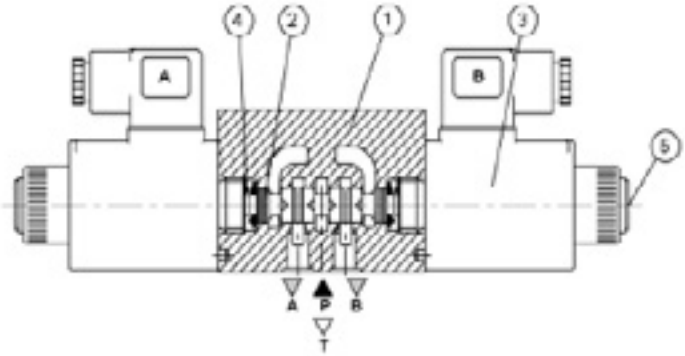
- Plug-in connector for solenoids to ISO 4400.Connection diagram and connection dimensions to ISO 4401
- 5 chamber models with good spool guidance.Optional control electronics: Amplifier P/N: 1650674.
- Protection of solenoid IP 65 to EN 60529 / IEC 60529.
- Fulfil EMC (89/336/EEC).

KVP-4/3-5KO-6

Operation

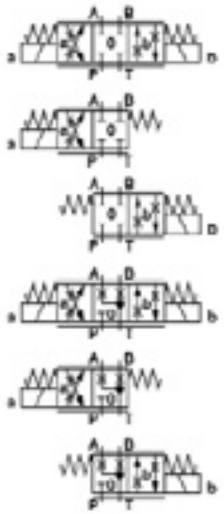
The KVP directional control valve is a proportional valve providing variable flow rates. This valve is used with control electronics. Typical applications are soft switching via adjustable ramps for the reduction of hydraulic and mechanical shocks, and electrically adjustable flow rates - speeds for automating machine functions.

This directional valves consist of a housing (1), a control spool (2), one or two proportional solenoids (3) and two return springs (4). The change-over can be done manually by pressing the emergency manual override (5).



Hydraulic symbols

Spool type



Hydraulic			
Size			6
Flow rate		L/min *[GPM]*	10. 20. 30 *[2.6 - 5.2 - 7.9]*
Operating pressure	A, B, P	bar *[PSI]*	350 *[5 076]*
	T		250 *[3 625]*
Oil temperature range		°C *[°F]*	-20 to +70 *[-4 to +158]*
Viscosity range		mm^2/s *[SUS]*	15 to 300 *[3.24 to 82]*
Mounting position			Optional
Mass	4/2	kg *[lb]*	1,66 *[3.63]*
	4/3		2,2 *[4.85]*
Filtration		NAS 1638	7

Proportional			
Hysteresis			5% of max. flow rate
Nominal current	12 DC	A	2
	24 DC		1

Electrical		
Supply voltage	V	12. 24 DC
Power	W	38
Ambiant temperature	°C *[°F]*	to+50 *[to +122]*
Coil temperature	°C *[°F]*	to +180 *[to +356]*
Duty cycle		Continuous

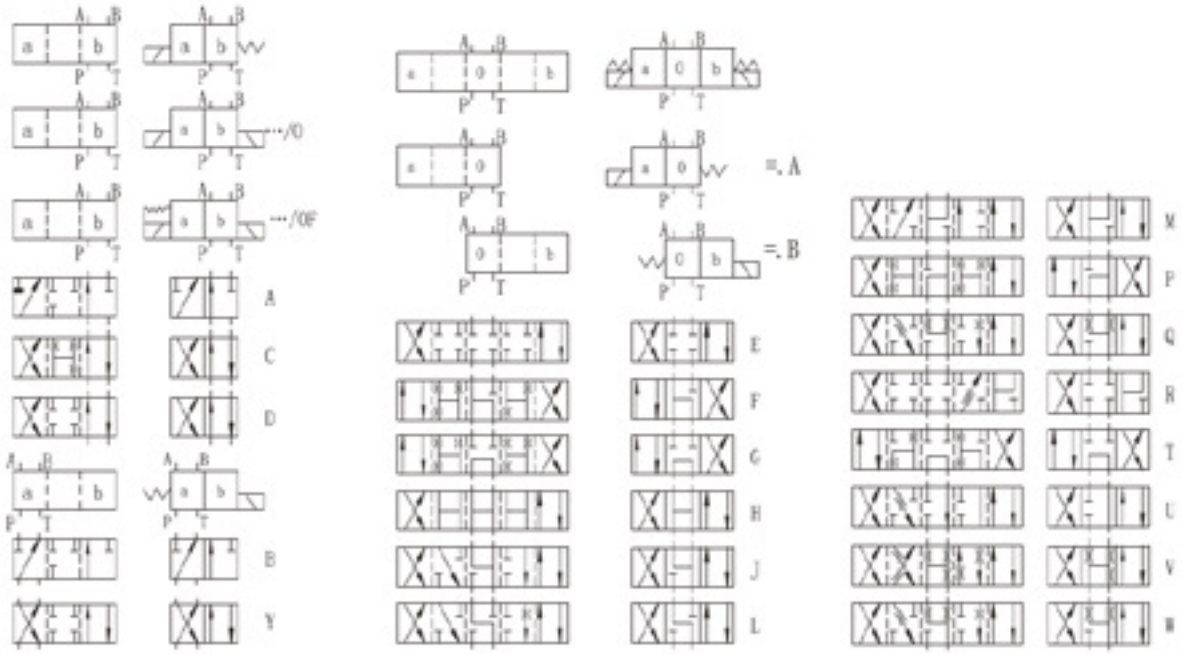
CETOP 5 VALVES

CETOP 5 Valve 120 l/min / 315 bar — DWG10

Available in a wide range of spools with a Phosphated casting

Technical Characteristics	l/min	
Max Flow	120	
	bar	**psi**
Max operating Pressure, ports A, B & P	315	4630
Max Pressure in Tank Line, port T	160	2350
Weight 4/3 valve	6	
Weight 4/3 valve	4.6	

Spool types



Poclain Hydraulics
CETOP VALVES

CETOP 5 Valve 120 l/min / 350 bar — 5KO-10

4/2, 4/3 WAY DIRECTIONAL VALVE KV-5KO

- NG 10
- Up to 350 bar *[5 076 PSI]*.
- Up to 120 L/min *[31.7 GPM]*.

- Connection diagram and connecting dimensions to ISO 4401.
- Plug-in connector for solenoids to ISO 4400.5-chamber model with good spool guidance.
- Optimized flow paths for low losses of pressure.
- Adjustment of the switching time.
- Wet pin solenoid with interchangeable coil.
- Manual emergency control.
- Protection of solenoid IP 65 to EN 60529 / IEC 60529.

KV-4/3-5KO-10

Operation

Directional valves type KV with direct solenoid operation control the direction of the hydraulic medium flow.

These directional valves consist of a housing (1), a control spool (3), and one solenoid (2) with two return springs (4) in 4/2-way directional valves, and two solenoids (2) with two return springs (4) in 4/3-way directional valves. In 4/3-way directional valves the centre position of the control spool is the neutral position. The change-over to the operating position (a) and (b) is done by energizing the solenoids (2) "a" and "b" respectively, whereby the solenoid plunger acts on the control spool (3) via the operating pin (5), thus clearing the corresponding flow ways and establishing relevant links between ports A, B, P, and T.

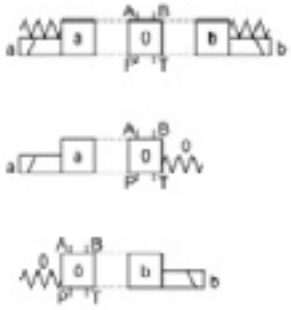
When the solenoid (2) is de-energized, the control spool (3) is returned to its neutral position by the return spring (4). The change-over can be done manually by pressing the emergency manual override (6).

KV-4/2-5KO-10-01

Directional valve with two operating position, two solenoids without springs allows the control spool to be held in the operating position (detent). The control spool remains in the operation position also when the solenoids are de-energised.

Hydraulic symbol

Spool types

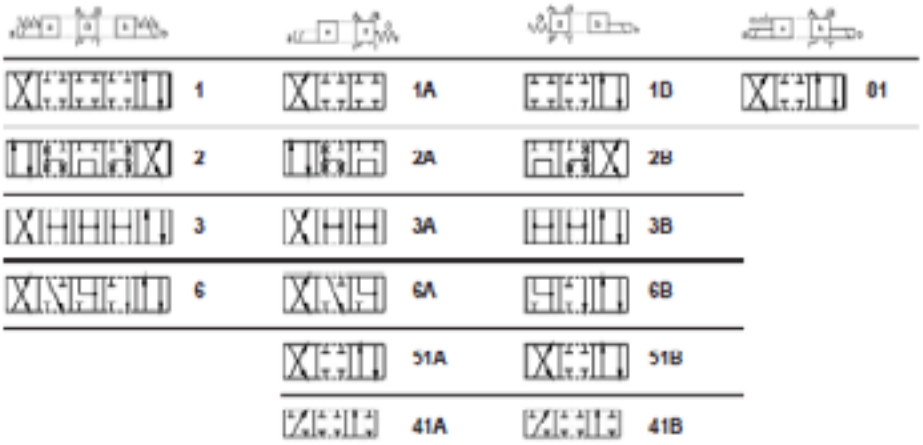


Hydraulic			
Size			10
Flow rate		L/min *[GPM]*	see ΔP-Q curves
Operating pressure	Ports A, B, P	bar *[PSI]*	350 *[5 076]*
	Port T	bar *[PSI]*	210 *[3 625]*
Viscosity range		mm^2/s *[SUS]*	15 to 380 *[69.5 to 1 760]*
Oil temperature range		°C *[°F]*	-20 to+70 *[-4 to 158]*
Filtration		NAS 1638	8
Mass	4/2	kg *[lb]*	6,6 *[14.3]*
	4/3		7,3 *[16.1]*
Mounting position			Optional
Electrical			
Supply voltage	Direct	V	12, 24, 48
	Alternating		110, 230
Power		W	45
Switch-on time*		ms	70 to 95
Switch-off time*		ms	40 to 60
Switching frequency		1/h	15 000
Ambient temperature		°C *[°F]*	to 50 *[122]*
Coil temperature		°C *[°F]*	to 180 *[356]*
Duty cycle			Continuous

* The switching-on and off times apply to 24 V DC solenoids.

POCLAIN Hydraulics

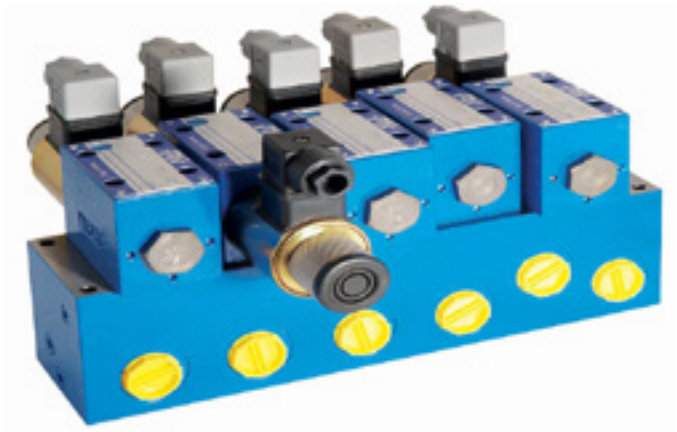
CETOP Spool & supply voltage options (Poclain Valves)



	Direct voltage	Alternating voltage
12 V	**12 DC**	**12 AC**
24 V	**No designation**	**24 AC**
48 V	**48 DC**	**48 AC**
110 V	**110 DC**	**110 AC**
230 V	**230 DC**	**230 AC***

- Alternating voltage solenoids are fitted with a bridge rectifier
- With solenoids of over 48 V an earthing clamp to ISO 4400 must be connected

*To fulfil EMC (89/336/EEC) a capacitor must be built in.



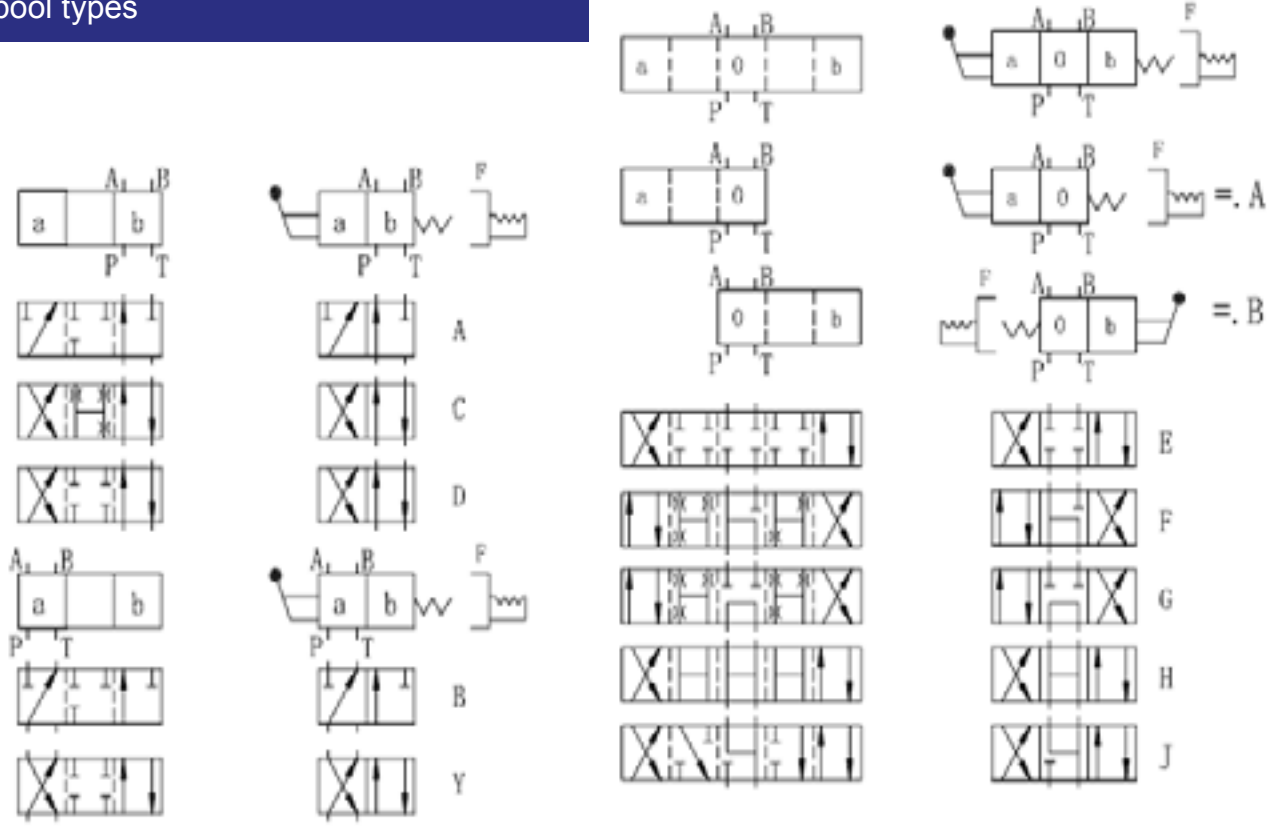
POCLAIN Hydraulics

MANUAL LEVER CETOP VALVES

CETOP 3 & 5 Lever Valves

Technical Characteristics	CETOP 3 NG6	CETOP 5 NG6
Max Flow	60 l/min	100 l/min
Max operating Pressure, ports A, B & P	315 bar	315 bar
Max Pressure in Tank Line, port T	160 bar	160 bar

Spool types



4/2, 4/3 WAY DIRECTIONAL VALVES TYPE KV

- NG 16
- To 350 bar *[5 076 PSI]*
- To 300 L/min *[79 GPM]*

- Indirect, solenoid, and mechanical (by lever) operation.
- Connection diagram and connecting dimensions to ISO 4401.
- Plug-in solenoid connector to ISO 4400.
- Protection of solenoid IP 65 to EN 60529 / IEC 60529.
- Fulfil EMC (89/336/EEC).

KV-4/3-16-

Features			
Flow rate	L/min *[GPM]*		300 *[79.2]*
Operating pressure	bar *[PSI]*	Ports A, B, P	350 *[5076.3]*
		Port T	250 *[3625.9]*
Pilot oil pressure (x-external)	bar *[PSI]*		50-250 *[725.2-3625.9]*
Pilot oil pressure (x-internal) Pre-load valve is fitted into P-port of the main valve Without Pre-load valve in the P-port of the main valve			In valve types with internal pilot oil supply (x) the spool types 2, 3, and 4 are possible only when the oil flow in the direction from P towards T achieves the flow rate Q = 150 L/min *[39.6 GPM]*, with the control spool in the centre position.
Oil temperature range	°C *[°F]*		-20 to +70 *[-4 to 158]*
Viscosity range	mm^2/S		15 to 380
Required pilot oil volume	cm^3 *[cu.in]*	2 positions valve	7,8 *[0.47]*
		3 positions valve	3,9 *[0.24]*
Mass	kg *[lb]*	Main valve	0 *[17.6]*
		4/3 pilot valve	2,5 *[5.5]*
		4/2 pilot valve	2,2 *[4.8]*
		Throttle/check valve	1,45 *[3.2]*
		Pressure reducing valve	1.70 *[3.7]*
Mounting position			Optional, horizontal for spool types 4/2
Switch-on time Solenoid change-over from the operating to the centre position	(ms)	3 positions valve 2 positions valve	60 65
Switch-off time Solenoid change-over from the operating to the centre position	(ms)	3 positions valve 2 positions valve	45 50
Filtration	NAS 1638		9
Ambient temperature range	°C *[°F]*		+60 *[122]*
Coil temperature range	°C *[°F]*		+180 *[356]*
Power	W		20 (12V supply voltage - 36W)
Voltage	V		12, 24, 48, 110, 220

The switch-on and switch-off times apply to 24 V DC solenoids.

Poclain Hydraulics
CETOP VALVES

CETOP 7 Valves

KV 16

Model code

KV - 4 / ☐ 16 - ☐ - ☐ - ☐

Number of control spool positions

Two positions	2
Three positions	3

Manual override option

Emergency manual override	No designation
Manual override with rubber cover	G
Lockable manual override	C

Spool types

	1
	2
	3
	4
	5
	6
	R1
	R2
	R3
	R4
	R5
	R6
	R51
	F51
	51A
	51B

Pilot oil supply and discharge

Three positions	Two positions	
Internal x, y		N
Internal y, external x		YN
Internal x, external y		XN
External x, y		Z

For supply and discharge with spool type 2 and 3, refer to the features table.

POCLAIN Hydraulics

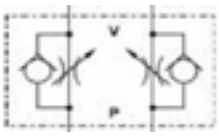
Cetop Sandwich valves

Pressure Relief Valve — VP-RT

Cetop 3 Part number	Relief in port	Max flow l/min	Maximum Pressure bar	Adjustment pressure range bar
VP-RT-6-EP-100-C	P to T	50	350	10-100
VP-RT-6-EP-315-C	P to T	50	350	10-315
VP-RT-6-EA-100-C	A to T	50	350	10-100
VP-RT-6-EA-315-C	A to T	50	350	10-315
VP-RT-6-EB-100-C	B to T	50	350	10-100
VP-RT-6-EB-315-C	B to T	50	350	10-350
VP-RT-6-D-100-C	A&B to T	50	350	10-100
VP-RT-6-D-315-C	A&B to T	50	350	10-315

POCLAIN Hydraulics

Cetop 5 Part Number	Relief in port	Max flow l/min	Maximum Pressure bar	Maximum Adjustment pressure (up to) bar
VP-RT-10-EP-100	P to T	100	350	20-280
VP-RT-10-EP-315	P to T	100	350	281-350
VP-RT-10-EA-100	A to T	100	350	20-280
VP-RT-10-EA-315	A to T	100	350	281-350
VP-RT-10-EB-100	B to T	100	350	20-280
VP-RT-10-EB-315	B to T	100	350	281-350



Pressure Relief Valve — ZPB

Adjustment range of 50, 100, 200 & 315 bar options

Cetop 3 Part number	Cetop size	Relief in port	Max flow l/min	Maximum Pressure bar
ZPB-6-VP-1-40-(50/100/200/315)	3	P to T	60	315
ZPB-6-VA-1-40-(50/100/200/315)	3	A to T	60	315
ZPB-6-VB-1-40-(50/100/200/315)	3	B to T	60	315
Z2PB-6-VD-1-40-(50/100/200/315)	3	A to B & B to A	60	315
Z2PB-6-VC-1-40-(50/100/200/315)	3	A&B to T	60	315

Cetop 5 Part number	Cetop size	Relief in port	Max flow l/min	Maximum Pressure bar
ZPB-10-VP-1-40-(50/100/200/315)	5	P to T	100	315
ZPB-10-VA-1-40-(50/100/200/315)	5	A to T	100	315
ZPB-10-VB-1-40-(50/100/200/315)	5	B to T	100	315
Z2PB-10-VD-1-40-(50/100/200/315)	5	A to B & B to A	100	315
Z2PB-10-VC-1-40-(50/100/200/315)	5	A&B to T	100	315

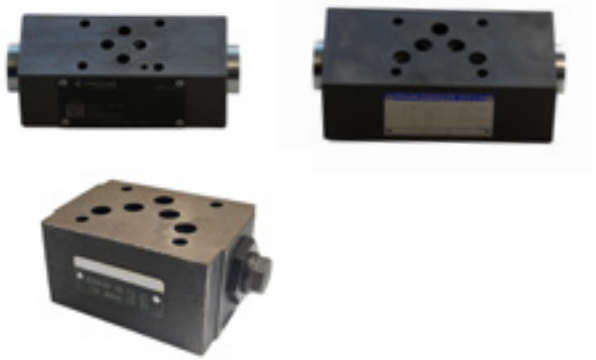
Cetop Sandwich valves

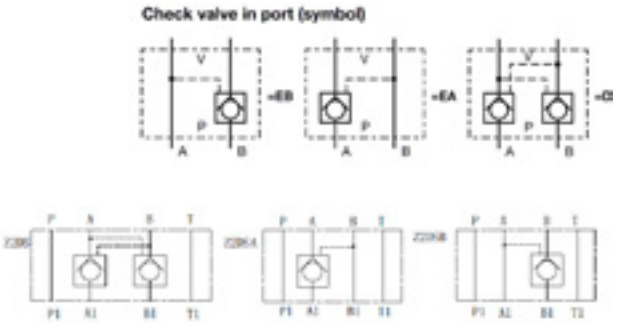
Dual Flow Control — VP-NDV & Z2-FDS

An O' ring mounting plate is supplied for valves type VP-NDV to enable fitting as meter in or meter out flow restriction.

Cetop Flow Control	Cetop Size	Max Flow l/min	Maximum Pressure bar
VP-NDV-6-D	3	60	350
Z2-FDS-6-30-S (Meter in)	3	80	315
Z2-FDS-6-30-S2 (Meter out)	3	80	315
VP-NDV-10-D	5	100	350
Z2-FDS-10-30-S (Meter in)	5	100	315
Z2-FDS-10-30-S2 (Meter out)	5	100	315
Z2-FDS-16-30-S (Meter in)	7	250	315
Z2-FDS-16-30-S2 (Meter out)	7	250	315
Z2-FDS-22-30-S (Meter in)	8	350	315
Z2-FDS-22-30-S2 (Meter out)	8	350	315

Pilot Operated Check — VP-NOV / Z2DS





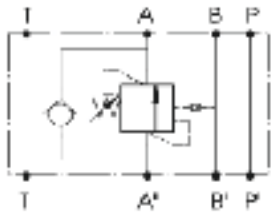
Pilot Operated Check	Cetop Size	Check on port	Maximum Flow l/min	Maximum Pressure bar	Pilot ratio
Z2DS-6-1-50	3	A&B	50	315	1:2.93
VP-NOV-6-D	3	A&B	60	350	1:3.9
Z2DS-6-A-1-50	3	A&B	50	315	1:2.93
VP-NOV-6-EA	3	A	60	350	1:3.9
Z2DS-6-B-1-50	3	B	50	315	1:2.93
VP-NOV-6-EB	3	B	60	350	1:3.9
Z2DS-10-1-50	5	A&B	80	315	1:2.77
VP-NOV-10-D	5	A&B	100	350	1:3.6
Z2DS-10-A-1-50	5	A	80	315	1:2.77
VP-NOV-10-EA	5	A	100	350	1:3.6
Z2DS-10-B-1-50	5	B	80	315	1:2.77
VP-NOV-10-EB	5	B	100	350	1:3.6
Z2DS-16-1-30	7	A&B	200	315	1:2.77
Z2DS-16-A-1-30	7	A	200	315	1:2.77
Z2DS-16-B-1-30	7	B	200	315	1:2.77

Cetop Sandwich valves

Cetop Single Overcentre — VBCD SE

Cetop 5 size is also available for Closed Centre application, this valve is not sensitive to back pressure and allows the system pressure to move multiple actuators in series.

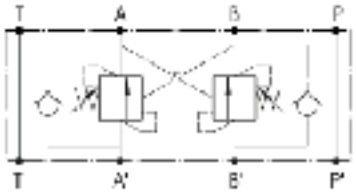
Single Overcentre	Cetop size	Acting on port	Maximum Flow l/min	Maximum Pressure bar	Pilot ratio
VBCD SE/A NG6	3	A	40	350	1:4.5
VBCD SE/B NG6	3	B	40	350	1:4.5
VBCD SE/A NG10	5	A	80	350	1:4.5
VBCD SE/A NG10 CC	5	A	80	350	1:4.5
VBCD SE/B NG10	5	B	80	350	1:4.5
VBCD SE/B NG10 CC	5	B	80	350	1:4.5



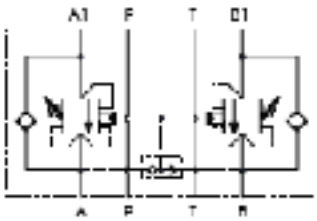
Cetop Dual Overcentre & Counterbalance — VBCD DE /VBC

Closed or Open centre aplications, other pilot ratio options are available

Cetop Dual Overcentre	Cetop size	Acting on port	Maximum Flow l/min	Maximum Pressure bar	Pilot ratio
VBCD DE NG6	3	A&B	40	350	1:4.5
VBCS06 (Open Centre application)	3	A&B	40	350	1:4.25
VBCT06 (Closed Centre application)	3	A&B	40	350	1:4.25
VBCD DE NG10	5	A&B	80	350	1:4.5
VBCD DE NG10 CC (Closed Centre)	5	A&B	80	350	1:4.5



VBCD DE NG6



VBCT06

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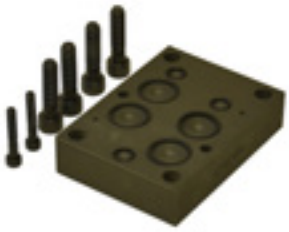
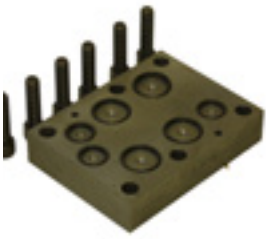
Cetop Blanking and Adaptor plates

Cetop Blanking Plates — MRF



Part Number	Cetop size	Material
MRF-3	3	Steel
MRF-5	5	Steel
MRF-7	7	Steel
MRF-8	8	Steel

Crossover Plates Steel — MRC

MR.C-3.PA

MR.C-3.PB

Part Number	Cetop Size	Crossover Type	Max Pressure bar
MRC3-PA	3	P - A / T - B	400
MRC3-PB	3	P - B / T - A	400
MRC5-PA	5	P - A / T - B	400
MRC5-PB	5	P - B / T - A	400

Adaptor Plates Steel — MRA

MR.A-5/3

CETOP 5

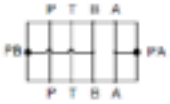
MR.AD-5/3

CETOP 5

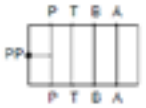
Part Number	Adapting Cetop Size	Max Pressure bar
MRA-5/3	Cetop 3 to Cetop 5	400
MRAD-5/3	Cetop 3 to Cetop 5 Direct	400
MRA-7/3	Cetop 3 to Cetop 7	400
MRA-7/5	Cetop 5 to Cetop 7	400
MRA-8/5	Cetop 5 to Cetop 8	400
MRA-8/7	Cetop 7 to Cetop 8	400

Sandwich Plate for Pressure Test Point — MRP

MR.P-3.AB



MR.P-3.P



Part Number	Cetop Size	Test point in port	Max Pressure bar
MRP3.P-1/4" G	3	P	400
MRP3.AB-1/4"G	3	A&B	400
MRP5.P-1/4"G	5	P	400
MRP5.AB-1/4"G	5	A&B	400

CETOP Single Subplates
Without Relief valve

Side ported single Subplates Steel




Part Number	Cetop size	Ports bsp	Port Orientation	Port Configeration	Max Flow l/min	Max Pressure bar
MRSL3-3/8"	3	3/8"	Side ported	one port each side	60	350
MRSL3-1/2"	3	1/2"	Side ported	one port each side	80	350
MR3-1G	3	A&B 3/8" / P&T 1/2"	Side ported	P&T edge sides / A&B long side	60	300
MR5-1G	5	A&B 1/2" / P 3/4" / T 1"	Side	P&T edge sides / A&B long side	120	300
BSG 10 DP	5	3/4"	Bottom	All on bottom face	100	300
MR7-1-3/4"G	7	A&B 3/4" / P 1" / T 1 1/4" / Y 3/8"	Side	P,T, &Y edge side / A&B long side	220	300
MR7-1-1"G	7	A&B 1" / P 1 1/4" / T 1 1/2" / Y 3/8"	Side	P,T & Y edge side / A&B long side	270	300
MR8-1-1"G	8	A&B 1" / P 1.1/4" / T 1.1/2" / Y1/2"	Side	P,T, &Y edge side / A&B long side	350	300

Side ported single Subplate Aluminium



Part Number	Cetop size	Ports bsp	Port Orientation	Port Configeration	Max Flow l/min	Max Pressure bar
BSA 06 AL	3	1/4"	Side ported	One port each side	45	250
BSA 06 APL	3	1/4"	Side & bottom	P&T rear / A&B side	45	250
BSA 06 ALL	3	1/4"	Side	P&T one side / A&B opposite side	45	250
BSG 06 AP	3	1/4"	Bottom	All on bottom face	45	250
BSA 06 BL	3	3/8"	Side ported	one port each side	45	250
BSA 06 BPL	3	3/8""	Side & bottom	P&T rear / A&B side	45	250
BSA 06 BLL	3	3/8""	Side	P&T one side / A&B opposite side	70	250
BSA 10 CL	5	1/2"	Side ported	One port each side	80	250
BSA 10 CPL	5	1/2"	Side & bottom	P&T rear / A&B side	80	250
BSA 10 CLL	5	1/2"	Side	P&T one side / A&B opposite side	80	250
BSA 10 DL	5	3/4"	Side ported	One port each side	100	250
BSA 06 DPL	5	3/4"	Side & bottom	P&T rear / A&B side	100	250
BSA 10 DLL	5	3/4"	Side	P&T one side / A&B opposite side	100	250

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CETOP Subplates & Manifolds

Cetop 3 Single Subplates with Pressure Relief valve

Part Number	Cetop Size	Max Flow l/min	Material	A&B bsp	P&T bsp	Gauge port bsp	Max Pressure bar	Pressure Relief range bar
BS3-C1	**3**	40	Aluminium	3/8” Side	3/8” Rear	1/4” Side	210	10-90
BS3-C2	**3**	40	Aluminium	3/8” Side	3/8” Rear	1/4” Side	210	20-210
BSA06BPLX-05	**3**	50	Aluminium	3/8” Side	3/8” Side or rear	1/4” Side	250	5-50
BSA06BPLX-20	**3**	50	Aluminium	3/8” Side	3/8” Side or rear	1/4” Side	250	30-210
BSA06BPLX-35	**3**	50	Aluminium	3/8” Side	3/8” Side or rear	1/4” Side	250	100-350
MR3-1G/C10-2/RV	**3**	60	Steel	3/8” Side	1/2” Side	----	300	38-350

Cetop 5 Single Subplates with Pressure Relief valve

Part Number	Cetop Size	Max Flow l/min	Material	A&B bsp	P&T bsp	Gauge port bsp	Max Pressure bar	Pressure Relief range bar
BS5-C1	**5**	80	Aluminium	1/2” Side	1/2” Side	1/4” Side	210	10-100
BS5-C2	**5**	80	Aluminium	1/2” Side	1/2” Side	1/4” Side	210	20-210
BSA10DPLX-10	**5**	80	Aluminium	3/4”	3/4” Side or rear	1/4” Side	250	35-100
BSA10DPLX-20	**5**	80	Aluminium	3/4”	3/4” Side or rear	1/4” Side	250	80-250
MR5-1G/C10-2/RV	**5**	120	Steel	1/2” Side	3/4” & 1” Side	----	300	35-350

CETOP 3 Subplates & Manifolds

Cetop 3 Side ported Aluminium — BMA06

Part Number	LPM	Number of stations	A&B bsp	P bsp	T bsp	Max Pressure bar
BMA06P2L1	50	1	3/8”	1/2”	1/2”	250
BMA06P2L2	50	2	3/8”	1/2”	1/2”	250
BMA06P2L3	50	3	3/8”	1/2”	1/2”	250
BMA06P2L4	50	4	3/8”	1/2”	1/2”	250
BMA06P2L5	50	5	3/8”	1/2”	1/2”	250
BMA06P2L6	50	6	3/8”	1/2”	1/2”	250
BMA06P2L7	50	7	3/8”	1/2”	1/2”	250
BMA06P2L8	50	8	3/8”	1/2”	1/2”	250

Cetop 3 Side ported Aluminium c/w Relief valve — BMA06

Part Number	LPM	Number of stations	A&B bsp	P bsp	T Bsp	Max Pressure bar	Pressure Relief range bar
BMA06P2L2X35	50	2	3/8”	1/2”	1/2”	300	100-350
BMA06P2L3X35	50	3	3/8”	1/2”	1/2”	300	100-350
BMA06P2L4X35	50	4	3/8”	1/2”	1/2”	300	100-350
BMA06P2L5X35	50	5	3/8”	1/2”	1/2”	300	100-350
BMA06P2L6X35	50	6	3/8”	1/2”	1/2”	300	100-350
BMA06P2L8X35	50	7	3/8”	1/2”	1/2”	300	100-350
BMA06P2L8X35	50	8	3/8”	1/2”	1/2”	300	100-350

Cetop 3 Side ported Steel — MR3G

Part Number	LPM	Number of stations	A&B bsp	P bsp	T bsp	Max Pressure bar
MR3-1G	60	1	3/8”	1/2”	1/2”	300
MR3-2G	60	2	3/8”	1/2”	1/2”	300
MR3-3G	60	3	3/8”	1/2”	1/2”	300
MR3-4G	60	4	3/8”	1/2”	1/2”	300
MR3-5G	60	5	3/8”	1/2”	1/2”	300
MR3-6G	60	6	3/8”	1/2”	1/2”	300
MR3-7G	60	7	3/8”	1/2”	1/2”	300
MR3-8G	60	8	3/8”	1/2”	1/2”	300

Cetop 3 Side ported Steel with cavity for Relief Valve — MR3/C10-2

Part Number	LPM	Number of stations	A&B bsp	P bsp	T bsp	Max Pressure bar
MR3-1G/C10-2	60	1	3/8”	1/2”	1/2”	300
MR3-2G/C10-2	60	2	3/8”	1/2”	1/2”	300
MR3-3G/C10-2	60	3	3/8”	1/2”	1/2”	300
MR3-4G/C10-2	60	4	3/8”	1/2”	1/2”	300
MR3-5G/C10-2	60	5	3/8”	1/2”	1/2”	300
MR3-6G/C10-2	60	6	3/8”	1/2”	1/2”	300
MR3-7G/C10-2	60	7	3/8”	1/2”	1/2”	300
MR3-8G/C10-2	60	8	3/8”	1/2”	1/2”	300

Components	Description	Pressure Range
MR3-PRV (RV8-10-S)	Relief Valve for C10-2 Cavity	38-350 BAR
C10-2 CAV.PLUG	Cavity Plug for C10-2 Cavity	

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CETOP 3 Subplates & Manifolds

Cetop 3 Side ported Steel c/w Pressure Test Points — MR3GPAB

Part Number	LPM	Number of stations	A&B bsp	P bsp	T bsp	Test points bsp	Max Pressure bar
MR3-1GPAB	50	1	3/8”	1/2”	1/2”	1/4”	300
MR3-2GPAB	50	2	3/8”	1/2”	1/2”	1/4”	300
MR3-3GPAB	50	3	3/8”	1/2”	1/2”	1/4”	300
MR3-4GPAB	50	4	3/8”	1/2”	1/2”	1/4”	300
MR3-5GPAB	50	5	3/8”	1/2”	1/2”	1/4”	300
MR3-6GPAB	50	6	3/8”	1/2”	1/2”	1/4”	300
MR3-7GPAB	50	7	3/8”	1/2”	1/2”	1/4”	300
MR3-8GPAB	50	8	3/8”	1/2”	1/2”	1/4”	300

Cetop 3 Side P&T, A&B rear ported Steel — MRK3G

Part Number	LPM	Number of stations	A&B bsp	P bsp	T bsp	Max Pressure bar
MRK3-1G	50	1	3/8”	1/2”	1/2”	300
MRK3-2G	50	2	3/8”	1/2”	1/2”	300
MRK3-3G	50	3	3/8”	1/2”	1/2”	300
MRK3-4G	50	4	3/8”	1/2”	1/2”	300
MRK3-5G	50	5	3/8”	1/2”	1/2”	300
MRK3-6G	50	6	3/8”	1/2”	1/2”	300
MRK3-7G	50	7	3/8”	1/2”	1/2”	300
MRK3-8G	50	8	3/8”	1/2”	1/2”	300

Cetop 3 Side P&T on side, A&B rear ported Steel c/w Pressure Test Points — MRK3GPAB

Part Number	LPM	Number of stations	A&B bsp	P bsp	T bsp	Max Pressure bar
MRK3-1GPAB	50	1	3/8”	1/2”	1/2”	300
MRK3-2GPAB	50	2	3/8”	1/2”	1/2”	300
MRK3-3GPAB	50	3	3/8”	1/2”	1/2”	300
MRK3-4GPAB	50	4	3/8”	1/2”	1/2”	300
MRK3-5GPAB	50	5	3/8”	1/2”	1/2”	300
MRK3-6GPAB	50	6	3/8”	1/2”	1/2”	300
MRK3-7GPAB	50	7	3/8”	1/2”	1/2”	300
MRK3-8GPAB	50	8	3/8”	1/2”	1/2”	300

CETOP 5 Subplates & Manifolds

Cetop 5 Side ported Steel — MR5G

Part Number	LPM	Number of stations	A&B bsp	P bsp	T bsp	Max Pressure bar
MR5-1G	120	1	1/2”	3/4”	1”	300
MR5-2G	120	2	1/2”	3/4”	1”	300
MR5-3G	120	3	1/2”	3/4”	1”	300
MR5-4G	120	4	1/2”	3/4”	1”	300
MR5-5G	120	5	1/2”	3/4”	1”	300
MR5-6G	120	6	1/2”	3/4”	1”	300
MR5-7G	120	7	1/2”	3/4”	1”	300
MR5-8G	120	8	1/2”	3/4”	1”	300

Cetop 5 Side ported Steel with cavity for Relief Valve — MR5/C10-2

Part Number	LPM	Number of stations	A&B bsp	P bsp	T bsp	Max Pressure bar
MR5-1G/C10-2	120	1	1/2”	3/4”	1”	300
MR5-2G/C10-2	120	2	1/2”	3/4”	1”	300
MR5-3G/C10-2	120	3	1/2”	3/4”	1”	300
MR5-4G/C10-2	120	4	1/2”	3/4”	1”	300
MR5-5G/C10-2	120	5	1/2”	3/4”	1”	300
MR5-6G/C10-2	120	6	1/2”	3/4”	1”	300
MR5-7G/C10-2	120	7	1/2”	3/4”	1”	300
MR5-8G/C10-2	120	8	1/2”	3/4”	1”	300

Components	Description	Pressure Range
MR5-PRV	Relief Valve for C10-2 Cavity	35-350 BAR
C10-2 CAV.PLUG	Cavity Plug for C10-2 Cavity	

Cetop 5 Side ported Steel c/w Pressure Test Points — MR5GPAB

Part Number	LPM	Number of stations	A&B bsp	P bsp	T bsp	Test points bsp	Max Pressure bar
MR5-1GPAB	120	1	1/2”	3/4”	1”	1/4”	300
MR5-2GPAB	120	2	1/2”	3/4”	1”	1/4”	300
MR5-3GPAB	120	3	1/2”	3/4”	1”	1/4”	300
MR5-4GPAB	120	4	1/2”	3/4”	1”	1/4”	300
MR5-5GPAB	120	5	1/2”	3/4”	1”	1/4”	300
MR5-6GPAB	120	6	1/2”	3/4”	1”	1/4”	300
MR5-7GPAB	120	7	1/2”	3/4”	1”	1/4”	300
MR5-8GPAB	120	8	1/2”	3/4”	1”		300

Cetop 5 Side P&T on side, A&B rear ported Steel — MRK5G

Part Number	LPM	Number of stations	A&B bsp	P bsp	T bsp	Max Pressure bar
MRK5-1G	120	1	1/2”	3/4”	1”	300
MRK5-2G	120	2	1/2”	3/4”	1”	300
MRK5-3G	120	3	1/2”	3/4”	1”	300
MRK5-4G	120	4	1/2”	3/4”	1”	300
MRK5-5G	120	5	1/2”	3/4”	1”	300
MRK5-6G	120	6	1/2”	3/4”	1”	300
MRK5-7G	120	7	1/2”	3/4”	1”	300
MRK5-8G	120	8	1/2”	3/4”	1”	300

CETOP 7 Subplates & Manifolds

Cetop 7 (NG16) Side ported Steel — MR7G

Part Number	LPM	Number of stations	A&B bsp	P bsp	T bsp	Drain port bsp	Max Pressure bar
MR7-1-3/4"G	270	1	3/4"	1"	1 1/4"	3/8"	300
MR7-1-1"G	270	1	1"	1 1/4"	1 1/2"	3/8"	300
MR7-2-3/4"G	270	2	3/4"	1"	1 1/4"	3/8"	300
MR7-2-1"G	270	2	1"	1 1/4"	1 1/2"	3/8"	300
MR7-3-1"G	270	3	1"	1 1/4"	1 1/2"	3/8"	300

CETOP 8 Subplates & Manifolds

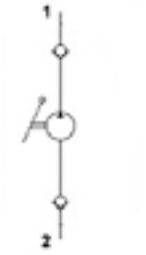
Cetop 8 (NG25) Side ported Steel — MR8G

Part Number	LPM	Number of stations	A&B bsp	P bsp	T bsp	Drain port bsp	Max Pressure bar
MR8-1-1"G	270	1	1"	1 1/4"	1 1/2"	1/2"	300
MR8-2-1"G	270	2	1"	1 1/4"	1 1/2"	1/2"	300

Hand Pumps Industrial Applications

Double Stroke Function auxiliary pump — GL

Part Number	Displacement cm3	Max Pressure bar	Ports size bsp
GL20	18	480	3/8” & 1/2”
GL25	28	320	3/8” & 1/2”
GL28	36	250	3/8” & 1/2”
GL30	42	220	3/8” & 1/2”
GL35	57	160	3/8” & 1/2”
GL40	87	120	1/2” & 1/2”
GL45	111	90	1/2” & 1/2”



Single Acting pump with release knob — GLR

Part Number	Displacement cm3	Max Pressure bar	Ports size bsp
GLR20	18	480	3/8” & 1/2”
GLR25	28	320	3/8” & 1/2”
GLR28	36	250	3/8” & 1/2”
GLR30	42	220	3/8” & 1/2”
GLR35	57	160	3/8” & 1/2”
GLR40	87	120	1/2” & 1/2”
GLR45	111	90	1/2” & 1/2”

Single Acting pump mounted on a 4 ltr capacity tank with a pressure release knob — GLB

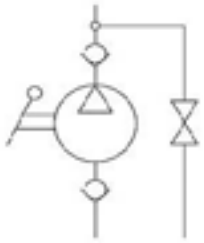
Standard tank size is 4 Litre, 10 Litre available upon request

Part Number	Displacement cm3	Max Pressure bar	Ports size bsp
GLB20	18	480	1/2”
GLB25	28	320	1/2”
GLB28	36	250	1/2”
GLB30	42	220	1/2”

Hand Pumps Mobile Applications

Single Acting hand pump double stroke function — PMSP

Pumps have a Pressure Relief valve rubber gator protection as standard



Part Number	Displacement cm3	Max Pressure bar	Ports size bsp
PMSP6RV	6	500	3/8”
PMSP12RV	12	380	3/8”
PMSP25RV	25	350	3/8”
PMSP45RV	45	280	3/8”

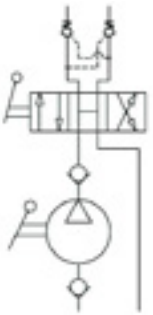
Double Acting hand pump closed centre — PMIP

Pumps have a Pressure Relief valve rubber gator protection as standard

Part Number	Displacement cm3	Max Pressure bar	Ports size bsp
PMIP6RV	6	500	3/8”
PMIP12RV	12	380	3/8”
PMIP25RV	25	350	3/8”
PMIP45RV	45	280	3/8”

Double Acting hand pump with Pilot Check valves — PMT

Pumps have rubber gator protection as standard



Part Number	Displacement cm3	Max Pressure bar	Ports size bsp
PMTP6	6	500	3/8”
PMTP12	12	380	3/8”
PMTP25	25	350	3/8”
PMTP45	45	280	3/8”

Steel Oil Tanks for hand pumps — TNK

Tanks are coated black RAL9005, supplied with air breather
Mounted Horizontally or Vertically

Part Number	Capacity Litre
TNK 1	1
TNK 2	2
TNK 3	3
TNK 5	5
TNK 7	7
TNK 10	10

Gear pumps Group 1

Group 1 Gear pumps with cast Iron end plates and bsp porting
4 Bolt European Flange with 1:8 Taper Shaft, 1 cc/rev up to 7 cc/rev

Part Number	cc/rev	Pump Rotation	Flow l/min @1500 rpm	Pressure bar	Max Pressure bar	Min Speed rpm	Max Speed rpm	Suction Port bsp	Pressure Port bsp
C1.25X1T1-B	1.25	Clockwise	1.87	250	280	700	3500	3/8”	3/8”
A1.25X1T1-B	1.25	Anti Clockwise	1.87	250	280	700	3500	3/8”	3/8”
C1.6X1T1-B	1.6	Clockwise	2.40	250	280	700	3500	3/8”	3/8”
A1.6X1T1-B	1.6	Anti Clockwise	2.40	250	280	700	3500	3/8”	3/8”
C2X1T1-B	2	Clockwise	3.00	250	280	700	3500	3/8”	3/8”
A2X1T1-B	2	Anti Clockwise	3.00	250	280	700	3500	3/8”	3/8”
C2.5X1T1-B	2.5	Clockwise	3.75	250	280	700	3500	3/8”	3/8”
A2.5X1T1-B	2.5	Anti Clockwise	3.75	250	280	700	3500	3/8”	3/8”
C3.15X1T1-B	3.15	Clockwise	4.72	250	280	700	3500	1/2”	3/8”
A3.15X1T1-B	3.15	Anti Clockwise	4.72	250	280	700	3500	1/2”	3/8”
C3.65X1T1-B	3.65	Clockwise	5.47	250	280	700	3500	1/2”	3/8”
A3.65X1T1-B	3.65	Anti Clockwise	5.47	250	280	700	3500	1/2”	3/8”
C4.2X1T1-B	4.2	Clockwise	6.30	250	280	700	3000	1/2”	3/8”
A4.2X1T1-B	4.2	Anti Clockwise	6.30	250	280	700	3000	1/2”	3/8”
C5.1X1T1-B	5	Clockwise	7.50	250	280	700	3000	1/2”	3/8”
A5.1X1T1-B	5	Anti Clockwise	7.50	250	280	700	3000	1/2”	3/8”
C5.7X1T1-B	5.7	Clockwise	8.55	200	250	700	2500	1/2”	3/8”
A5.7X1T1-B	5.7	Anti Clockwise	8.55	200	250	700	2500	1/2”	3/8”
C6.1X1T1-B	6.1	Clockwise	9.15	200	250	700	2500	1/2”	3/8”
A6.1X1T1-B	6.1	Anti Clockwise	9.15	200	250	700	2500	1/2”	3/8”
C7XT1-B	7	Clockwise	10.50	180	220	700	2000	1/2”	3/8”
A7XT1-B	7	Anti Clockwise	10.50	180	220	700	2000	1/2”	3/8”

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Gear pumps Group 2

Group 2 Gear pumps with cast Iron end covers,bsp porting 4 - 32 cc/rev

Part Number	cc/rev	Flow l/min @1500 rpm	Pressure bar	Max Pressure bar	Min speed rpm	Max speed rpm	Suction Port bsp	Pressure Port bsp
C(A)4	4	6	250	280	700	3500	1/2”	1/2”
C(A)6	6	9	250	280	700	3500	1/2”	1/2”
C(A)9	9	13.5	250	280	700	3500	1/2”	1/2”
C(A)10	10	15	250	280	700	3500	1/2”	1/2”
C(A)11	11	16.5	250	280	700	3500	3/4”	1/2”
C(A)14	14	21	250	280	700	3500	3/4”	1/2”
C(A)15	15	22.5	250	280	700	3500	3/4”	1/2”
C(A)16	16	24	250	280	700	3000	3/4”	1/2”
C(A)19	19	28.5	200	250	700	2500	3/4”	1/2”
C(A)22	22	33	200	250	700	2500	3/4”	1/2”
C(A)25	25	37.5	200	250	700	2500	3/4”	1/2”
C(A)26	26	39	160	230	700	2000	3/4”	1/2”
C(A)28	28	42	160	230	700	2000	3/4”	3/4”
C(A)32	32	48	140	210	700	2000	1”	3/4”

Rotation	Displacement	Flange & Shaft type	
C.. Clockwise A.. Anti-Clockwise	** cc/rev	X2T1 (4 Bolt European Flange 1:8 Taper) X4T5 (2 Bolt SAE ‘A’ Flange, 9 tooth Spline 16/32DP)	Cast Iron End Covers
C	4	X2T1	-B

Group 2 Petrone High Pressure Gear pumps

Highest quality & reliability with low noise generation, bsp ports.
Displacement from 4 to 26 cc/rev

Part Number	cc/rev	Flow l/min @1500 rpm	Max continuous Pressure bar @ 1500 rpm	Max Pressure bar @ 1500 rpm	Min speed rpm	Max speed rpm	Suction Port bsp	Pressure port bsp
PNP4	4	6	280	310	600	4000	1/2”	1/2”
PNP6	6	9	270	310	600	3500	1/2”	1/2”
PNP8	8	12	270	310	600	3500	1/2”	1/2”
PNP11	11	16.5	270	310	600	3500	3/4”	1/2”
PNP14	14	21	260	300	500	3000	3/4”	1/2”
PNP16	16	24	250	290	500	3000	3/4”	1/2”
PNP20	20	30	230	250	500	3000	3/4”	1/2”
PNP22	22.5	33.7	210	230	400	3000	3/4”	1/2”
PNP26	26	39	200	230	400	3000	3/4”	1/2”

Group 2	Rotation	Displacement	Shaft type	Mounting Flange	Ports
PNP2	D.. Clockwise S.. Anti Clockwise	** cc/rev	CO01 (1:8 Taper) CO02 (1:5 Taper) CI01 (15mm Parallel 4mm key width) CI03 (16mm Parallel 4mm key width) SC01 (DIN5482 9T Spline) SC02 (SAE 9T Spline) SC03 (SAE A 11T Spline)	01.. 4 Bolt Standard European 02.. SAE ‘B’ 2 Bolt 03.. 4 Bolt Bosch	A.. Threaded Bsp B.. Flange Ports
PNP2	D	11	CO01	01	A

Gear pumps Group 3

Group 3 Gear pumps with cast Iron end covers, bsp ports 20 - 63 cc/rev

Part Number	cc/rev	Flow l/min @1500 rpm	Pressure bar	Max Pressure bar	Min speed rpm	Max speed rpm	Suction Port bsp	Pressure Port bsp
30C(A)20	20	30	250	280	700	2500	3/4”	3/4”
30C(A)25	25	37.5	250	280	700	2500	3/4”	3/4””
30C(A)28	28	42	250	280	700	2500	3/4”	3/4”
30C(A)32	32	48	250	280	700	2500	1”	3/4”
30C(A)36	36	54	250	280	700	2300	1”	3/4”
30C(A)42	42	63	230	250	700	2300	1”	3/4”
30C(A)46	46	69	230	250	700	2100	1”	3/4”
30C(A)50	50	75	200	230	700	2100	1”	3/4”
30C(A)55	55	82.5	200	230	700	1750	1”	3/4”
30C(A)63	63	94.5	160	190	700	1750	1 1/4”	1”

Rotation	Displacement	Flange & Shaft type	
30C.. Clockwise 30A.. Anti-Clockwise	** cc/rev	XF068 (4 Bolt European Flange 1:8 Taper) XF014 (2 Bolt SAE ‘B’ Flange, 13 tooth Spline 16/32DP)	Cast Iron End Covers
30C	20	XF068	NPTH

Group 3 Petrone High Pressure Gear pumps

Highest quality & reliability with low noise generation, bsp ports.
Displacement from 28 to 55 cc/rev

Part Number	cc/rev	Flow l/min @1500 rpm	Max continuous Pressure bar @ 1500 rpm	Max Pressure bar @ 1500 rpm	Min speed rpm	Max speed rpm	Suction Port bsp	Pressure port bsp
PNP328	28	42	250	270	600	3000	1”	1”
PNP333	33	49.5	250	270	600	3000	1”	1”
PNP338	38	57	250	270	600	3000	1”	1”
PNP344	44	66	230	250	600	2500	1”	1”
PNP355	55	82.5	200	230	600	2500	1 1/4”	1”

Group 3	Rotation	Displacement	Shaft type	Mounting Flange	Ports
PNP3	D.. Clockwise S.. Anti-Clockwise	** cc/rev	CO01 (1:8 Tapered Shaft) SC01 (DIN5482 13T Splined) CI01 (24 mm Parallel)	01.. 4 Bolt Standard European 02.. SAE ‘B’ 2 Bolt	A.. Threaded Bsp B.. Flange Ports
PNP3	D	33	CO01	01	A

Gear pumps Group 3.5 & 4

Group 3.5 & 4 Gear pumps with cast Iron end plates and bsp porting
4 Bolt standard European Flange with 1:8 taper shaft
Displacement GP3.5 from 43 cc/rev up to 75 cc/rev
Displacement GP4 from 77 cc/rev up to 147 cc/rev

Part Number GP 3.5	cc/rev	Flow l/min @1500 rpm	Maximum speed Rpm	Rated Pressure bar	Max Pressure bar	Suction Port bsp	Pressure Port bsp
C(A) 95	43	64.5	2000	175	200	1”	1”
C(A) 120	54.5	81.75	2000	140	170	1”	1”
C(A) 140	63.5	95.25	2000	140	170	1 1/4”	1”
C(A) 165	75	112.5	2000	105	130	1 1/4”	1”

Part Number GP 4	cc/rev	Flow l/min @1500 rpm	Maximum speed Rpm	Rated Pressure bar	Max Pressure bar	Suction Port bsp	Pressure Port bsp
C(A) 170	77	115.5	1750	175	200	1 1/2”	1 1/4”
C(A) 215	98	147	1750	140	170	1 1/2”	1 1/4”
C(A) 280	127	190.5	1750	140	170	1 1/2”	1 1/4”
C(A) 325	147	220.5	1750	105	130	1 1/2”	1 1/4”

Rotation	Part number	Suffix code
C.. Clockwise A.. Anti Clockwise	***	X(T)
C	**120**	**XT**

Bearing Suports for Hydraulic Gear Pumps

A Support Flange connected directly to the Pump to protect the shafts of Pumps and Motors from high Radial Loads. Cast Aluminium Body and Steel Parallel or Taper Shaft
The Pump and Motor shafts are connected by a splined coupling DIN5482

Part Number	Pump size	Support Shaft	Spline Bush
SP-U1P	Group 1	18 mm Parallel	B-U1P / 10003
SP-S2	Group 2	18 mm Parallel	B-2CA / 10005
SP-R2	Group 2 Heavy Duty	22 mm Parallel	B-R2U / 10007
SP-2C	Group 2	1 : 8 Taper	B-2CA / 10005
SP-3U	Group 3	24 mm Parallel	B-3 / 10014
SP-3.5U	Group 3.5	28 mm Parallel	B-35U / 10017

Cast Iron Gear Pumps

Bi-directional Rotation with rear port or side & rear ports
4 bolt of 3 bolt flange

B2 Series Displacement cc/rev	Operating Pressure bar	Maximum Continuous Speed rpm	Porting	4 Bolt DIN 5462 8 Tooth Spline	3 Bolt DIN 5463 6 tooth Spline
12	280	2500	Rear Ports	B24T12	B23T12
16	280	2000	Rear Ports	B24T16	B23T16
20	260	2000	Rear Ports	B24T20	B23T20
26	240	2000	Rear Ports	B24T25	B23T25
32	170	1800	Rear Ports	B24T32	B23T32
39	280	2600	Rear Ports	B24T40	B23T40

B3 Series Displacement cc/rev	Operating Pressure bar	Maximum Continuous Speed rpm	Porting	4 Bolt DIN 5462 8 Tooth Spline	3 Bolt DIN 5463 6 tooth Spline
38	280	2600	Rear Ports	B34T38	B33T38
45	280	2500	Rear Ports	B34T45	B33T45
52	260	2200	Rear Ports	B34T52	B33T52
61	240	2000	Rear Ports	B34T61	B33T61
70	220	1900	Rear Ports	B34T70	B33T70
82	210	1800	Rear Ports	B34T82	B33T82
91	190	1800	Rear Ports	B34T90	B33T90
102	190	1600	Rear Ports	B34T105	B33T105
116	180	1600	Rear Ports	B34T115	B33T115
125	170	1600	Rear Ports	B34T125	B33T125

B35 Series Displacement cc/rev	Operating Pressure bar	Maximum Continuous Speed rpm	Porting	4 Bolt DIN 5462 8 Tooth Spline
64.5	300	2000	Rear & Side ports	B354GTR64
74.7	300	2000	Rear & Side ports	B354GTR74
83.8	270	1800	Rear & Side ports	B354GTR84
94	260	1800	Rear & Side ports	B354GTR94
104.2	250	1800	Rear & Side ports	B354GTR104
114.5	250	1800	Rear & Side ports	B354GTR114
124.7	240	1600	Rear & Side ports	B354GTR124
133.7	230	1500	Rear & Side ports	B354GTR134
154.2	185	1500	Rear & Side ports	B354GTR154

Bent Axis Piston Pumps 17 to 172 cc/rev

Cast Iron up to 81cc, Aluminium in 108 to 172 cc
Low noise, easy change of rotation, various flange and shaft options

Part Number DIN 5462.. 4 Bolt flange with 8 tooth spline shaft	Displacement cc/rev	Maximum Operating Pressure	Material
BIF 17M	17	400	Cast Iron
BIF 25M	26	400	Cast Iron
BIF 30M	32	400	Cast Iron
BIF 40M	42	400	Cast Iron
BIF 50M	50	400	Cast Iron
BIF 60M7	60	400	Cast Iron
BIF 80P7	81	400	Cast Iron
BIF 110P7	108	350	Aluminium
BIF 140H9	142	350	Aluminium
BIF 160H9	156	350	Aluminium
BIF 170H9	172	300	Aluminium

Bent Axis Piston Motors 17 to 81 cc/rev

Cast Iron body, other flange and shaft options available..

Part Number DIN 5462.. 4 Bolt flange with 8 tooth spline shaft	Displacement cc/rev	Maximum Operating Pressure	Maximum Continuous Speed rpm
MBIF 17M	17	400	5400
MBIF 25M	26	400	5400
MBIF 30M	32	400	5400
MBIF 40M	42	400	5400
MBIF 50M	50	400	5400
MBIF 60M7	60	400	5000
MBIF 80M7	81	350	5000

PTO Speed up Gearboxes

Speed up Gearboxes

Various ratios and Torque outputs

Male PTO shaft or
Female PTO Quick release

Part Number	Speed up Ratio	Power Kw	Input Torque Nm	Max Input Speed rpm	Input Shaft	Output Torque Nm	Max Output Speed rpm	Output Spine	Pump Flange Group Size
60004-4	1 : 3	10	180	540	PTO Female Q. R.	55	1680	25 x 22	2
60001-4	1 : 3	10	180	540	Male PTO Spline	55	1680	25 x 22	2
60004-5	1 : 3.5	10	186	540	PTO Female Q. R	58	1836	25 x 22	2
60001-5	1 : 3.5	10	186	540	Male PTO Spline	58	1836	25 x 22	2
60004-6	1 : 3.8	10	159	540	PTO Female Q. R.	42	2052	25 x 22	2
60001-6	1 : 3.8	10	159	540	Male PTO Spline	42	2052	25 x 22	2
71004-4	1 : 3	20	490	540	PTO Female Q. R	160	1620	35 x 31	2/3
71001-4	1 : 3	20	490	540	Male PTO Spline	160	1620	35 x 31	2/3
71004-5	1 : 3.5	20	460	540	PTO Female Q. R	130	1836	35 x 31	2/3
71001-5	1 : 3.5	20	460	540	Male PTO Spline	130	1836	35 x 31	2/3
71004-6	1 : 3.8	20	437	540	PTO Female Q. R	115	2052	35 x 31	2/3
71001-6	1 : 3.8	20	437	540	Male PTO Spline	115	2052	35 x 31	2/3
80003-5	1 : 3	36	489	540	PTO Female Q. R.(Requires Flange)	163	1620	40 x 36	2/3/3.5
80001-5	1 : 3	36	489	540	Male PTO Spline. (Requires Flange)	163	1620	40 x 36	2/3/3.5
92001-3/3	1 : 3.1	40	990	806	Male PTO Spline	320	2500	40 x 36	3 & 3.5
93001	1:2	68	1200	540	Male PTO Spline	600	1080	40 x 36	3.5

Spline Adaptors for Speed up Gearboxes to Pump shaft

Coupling Part Number	Pump Size	Spline
10005	Group 2 Standard	25 x 22
10026	Group 2 (4 mm Key Width)	25 x 22
10012	Group 2 Standard	35 x 31
10044	Group 2 (4 mm key width)	35 x 31
10014	Group 3 Standard	35 x 31
10016	Group 3 Standard	40 x 36
10017	Group 3.5 Standard	40 x 36
10052	Group 3.5 (6 mm Key Width)	40 x 36

Pump Flanges For Gearbox type 80003-5 & 80001-5

Coupling Part Number	Pump Size
80104	GP. 2
80103	GP. 3
80102	GP. 3.5 / 4

Speed Reduction Gearboxes

Reduction Gearboxes

Part Number	Ratio	Input Torque Nm	Power kw	Max Input Speed rpm	Input Shaft / Flange	Output Torque Nm	Max Output Speed	Output Shaft
95001-4	3 : 1	67	10	600	25 mm, / SAE A 2 Bolt Mounting	201	200	35 mm
95001-5	3.5 : 1	63	10	700	25 mm, / SAE A 2 Bolt Mounting	214	200	35 mm
95001-6	3.8 : 1	49	10	760	25 mm, / SAE A 2 Bolt Mounting	186	200	35 mm
96071-4	3 : 1	190	20	600	25 mm, / SAE A 2 Bolt Mounting	570	200	35 mm
96071-5	3.5 : 1	151	20	680	25 mm, / SAE A 2 Bolt Mounting	530	200	35 mm
96071-6	3.8 : 1	138	20	760	25 mm, / SAE A 2 Bolt Mounting	525	200	35 mm
97001-4	3 : 1	440	68	600	25 mm, / SAE A 2 Bolt Mounting	1320	200	35 mm

Mechanical Clutches

Part Number	Pump Group	Output Shaft	Internal Spline	Max Torque Nm	Max Speed rpm	Max Power Kw	Axial Load Nm
30100-RV	Groups 1 & 2	20 mm	25 x 22	90	2000	30	1200
30300-RV	Groups 2 & 3	28 mm	35 x 31	185	2700	40	1600
30311-RV	Group 2 SAE A Mount	28 mm	35 x 31	185	2700	40	1600
30312-RV	Group 3 SAE B Mount	28 mm	35 x 31	185	2700	40	1600
30500-RV	Requires Pump Flange	42 mm	48 x 44	580	2700	60	2600

Electro Mechanical Clucthes

Electro Mechanical Clutches Reversible

Part Number	Pump Group / Flange Type	Voltage DC	Static Torque Nm	Nominal Torque Nm	DynamicTorque at 1000 rpm Nm	Max Speed rpm	Pulley dia mm	Spline Profile
30901	Group 1 & 2	12V	125	78	70	5000	153	35 x 31
30903	Group 1 & 2	24V	125	78	70	5000	153	35 x 31
30909	Group 2 & 3	12V	125	78	70	5000	153	35 x 31
30911	Group 2 & 3	24V	125	78	70	5000	153	35 x 31
30931	Group 2 & 3	12V	140	118	110	5000	153	35 x 31
30932	Group 2 & 3	24V	140	118	110	5000	153	35 x 31
30990	Group 2	12V	210	118	110	5000	153	35 x 31
30991	Group 2	24V	210	118	110	5000	153	35 x 31
30992	Group 3	12V	210	160	120	5000	186	35 x 31
30993	Group 3	24V	210	160	120	5000	186	35 x 31
30940/SF	Requires Pump Flange	12V	500	380	315	5000	229	48 x 44
30941/SF	Requires Pump Flange	24V	500	380	315	5000	229	48 x 44

Spline Adaptors for Clutches

Coupling Part Number	Pump Group Size	Spline Profile
10003	Group 1 Standard	25 x 22
10033	Group 1 (3 mm key width)	25 x 22
10005	Group 2 Standard	25 x 22
10026	Group 2 (4 mm key width)	25 x 22
10010	Group 1 Standard	35 x 31
10012	Group 2 Standard	35 x 31
10044	Group 2 (4 mm key width)	35 x 31
10014	Group 3	35 x 31
10018	Group 2	48 x 44
10019	Group 3	48 x 44
10020	Group 3.5	48 x 44
10021	Group 4	48 x 44

Pump Flanges For Clutch Unit type 30500,30940/41 SF

Coupling Part Number	Pump Size
30400	GP. 2
30401	GP. 3
30402	GP. 3.5
30403	GP. 4
30420	SAE A (106mm Bolt Centre)
30422	SAE B (146mm Bolt Centre)
30432	SAE C (181mm Bolt Centre)

Bell Housings and Drive Couplings

Bell housings and Drive couplings for Gear pumps with standard 4 bolt European Flange and 1:8 taper shaft to B5/B35 Flange Electric Motors.
Many other connections are available, please contact us with your pump and motor details……...

Pump Group	Motor Frame	Motor kW	Motor Shaft mm	Bell Housing Part Re	Ally Drive Coupling	Steel Coupling	Bell Housing Gasket	Pump Gasket
05	D63	0.12-0.18	11	LS140	ND01	AGN01	GL140	GP05
1	D63	0.12-0.18	11	LS141	ND03	AGN03	GL140	GP1
05	D71	0.25-0.37	14	LS160	ND1	AGN1	GL160	GP05
1	D71	0.25-0.37	14	LS161	ND2	AGN2	GL160	GP1
05	D80	0.55-0.75	19	LS200	ND4	AGN4	GL200	GP05
05 MARZOCCHI	D80	0.55-0.75	19	LS210	ND4B		GL200	
1	D80	0.55-0.75	19	LS201	ND5	AGN5	GL200	GP1
2	D80	0.55-0.75	19	LS203	ND7	AGN7A	GL200	GP2
3	D80	0.55-0.75	19	LSE206	ND50A		GL200	GP3
3.5	D80	0.55-0.75	19	LSE213	ND50B		GL200	GP35
1	D90	1.1-1.5	24	LS201	ND70A	AGN8	GL200	GP1
1 H/DUTY	D90	1.1-1.5	24	LS201	ND8	AGN8	GL200	GP1
1 MARZOCCHI	D90	1.1-1.5	24	LS202	ND9A		GL200	
2	D90	1.1-1.5	24	LS203	ND10	AGN10A	GL200	GP2
2 BOSCH	D90	1.1-1.5	24	LBS20	ND201		GL200	GPZF
3	D90	1.1-1.5	24	LSE206	ND51A		GL200	GP3
3.5	D90	1.1-1.5	24	LSE213	ND51B		GL200	GP35
1	D100/112	2.2-4	28	LS250	ND11	AGN11	GL250	GP1
2	D100/112	2.2-4	28	LS252	ND13	AGN12C	GL250	GP2
2 BOSCH	D100/112	2.2-4	28	LBS24	ND61D		GL250	GPZF
3	D100/112	2.2-4	28	LS255	ND61C	AGN14	GL250	GP3
3 H/DUTY	D100/112	2.2-4	28	LS255	ND15	AGN14	GL250	GP3
3.5	D100/112	2.2-4	28	LSE259	ND52A		GL250	GP35
1	D132	5.5-9	38	LS310	ND900S	ND900S	GL300	GP1
2	D132	5.5-9	38	LS300	ND16	AGN15A	GL300	GP2
2 BOSCH	D132	5.5-9	38	LBS26	ND210		GL300	GPZF
3	D132	5.5-9	38	LS302	ND17	AGN16	GL300	GP3
3.5	D132	5.5-9	38	LS306	ND18	AGN18	GL300	GP35
2	D160	11-15	42	LS350	ND43A	AGN19A	GL350	GP2
2 BOSCH	D160	11-15	42	LBS31	ND43D		GL350	GPZF
3	D160	11-15	42	LS352	ND43C	AGN20	GL350	GP35
3.5	D160	11– 15	42	LSE356	ND21	AGN22	GL350	GP35
4	D160	11-15	42	LSE358	ND22	AGN24	GL350	GP4
2	D180	18.5-22	48	LS350	ND44A	AGN25A	GL350	GP2
2 BOSCH	D180	18.5-22	48	LBS31	ND44D		GL350	GPZF
3	D180	18.5-22	48	LS352	ND44C	AGN26	GL350	GP3
3 MARZOCCHI	D180	18.5-22	48	LS353	ND44C		GL350	
3.5	D180	18.5-22	48	LSE356	ND25	AGN28	GL350	GP35
4	D180	18.5-22	48	LSE358	ND26	AGN30	GL350	GP4
3	D200	30	55	LSE401	ND40	AGN31	GL400	GP3
3.5	D200	30	55	LSE405	ND41	AGN32A	GL400	GP35
4	D200	30	55	LSE407	ND42	AGN33A	GL400	GP4
3	D225	37-45	60	LS456	ND32			GP3
3 MARZOCCHI	D225	37-45	60	LS457	ND32			
3.5	D225	37-45	60	LS451	ND30	AGN34A		GP35
4	D225	37-45	60	LS453	ND31	AGN35A		GP4
3	D250/280	55-90	65	B55R3A-3U	ND250F-P3			GP3
3.5	D250/280	55-90	65	B55R3A-35U	ND250F-P35			GP3.5
4	D250/280	55-90	65	B55R3A-4U	ND250F-P4			GP4

Bell Housings and Drive Couplings

SAE 2 Bolt flange with spline shaft

SAE 'A' 2 Bolt Flange with 9 tooth spline 16/32 DP
Aluminium Bell Housing with Steel Drive coupling

Motor Frame	Motor kW	Motor Shaft mm	Bell Housing Part Re	Steel Coupling	Bell Housing Gasket	Pump Gasket
D90	1.1-1.5	24	TH20A-825A	DC/SAE A 9T	GL200	GP-SAE-A-2
D100/112	2.2-4	28	THB25-825A	DC/SAE A 9T	GL250	GP-SAE-A-2
D132	5.5-9	38	THB30-825A	DC/SAE A 9T	GL300	GP-SAE-A-2
D160	11-15	42	L35C-825A	DC/SAE A 9T	GL350	GP-SAE-A-2
D180	18.5-22	48	L35C-825A	DC/SAE A 9T	GL350	GP-SAE-A-2

SAE 'B' 2 Bolt Flange with 13 tooth spline 16/32 DP
Aluminium Bell Housing with Steel Drive coupling

Motor Frame	Motor kW	Motor Shaft mm	Bell Housing Part Re	Steel Coupling	Bell Housing Gasket	Pump Gasket
D90	1.1-1.5	24	B2AQ1A101A	DC/SAE B 13T	GL200	
D100/112	2.2-4	28	THB25-101A	DC/SAE B 13T	GL250	
D132	5.5-9	38	THB30-101A	DC/SAE B 13T	GL300	
D160	11-15	42	L35C-101A	DC/SAE B 13T	GL350	
D180	18.5-22	48	L35C-101A	DC/SAE B 13T	GL350	
D200	30	55	B40T1G101A	DC/SAE B 13T	GL400	
D250	37-45	60	B45T1G101A	DC/SAE B 13T		

Foot Mounting Support Brackets for LS Bell Housings
Option of Damping rods made to the same size as the foot mounting support

Foot Support Part number	Motor Frame	Bell housing size	Damping Rod Part number
P160	71	LS160, LS161	BMA-160-OMT
P200	80/90	LS200, LS201, LS203, LSE213, LSE206	BMA-200-OMT
P250	100/112	LS250, LS252, LS253, LS255	BMA-250-OMT
P300	132	LS300, LS302, LS306, LS310	BMA-300-OMT
P350	160/180	LS350, LS352, LSE356, LSE358	BMA-350-OMT
P400	200	LSE401, LSE405, LSE407	—
P450	225	LS451, LS453, LS456	—
P550	250/280	B55R3A-3U, B55R3A-35U, B55R3A-4U	—

Gaskets for Gear Pumps and Bell Housings

B5/B35 Motor Frame Size	Gasket Part Number
D63	GL140
D71	GL160
D80/90	GL200
D100/112	GL250
D132	GL300
D160/180	GL350
D200	GL400

Pump Group Size	Gasket Part Number
0.5	GP05
1	GP1
2	GP2
2 Bosch	GP2-ZF
3	GP3
3.5	GP3.5
4	GP4

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Bell Housings and Drive Couplings for Internal Combustion Engines

Bell housings and Drive couplings for Gear pumps with standard 4 bolt European Flange and 1:8 taper shaft for Internal combustion Engines

Many other connections are available, please contact us with your pump and motor details……...



Engine kW	Engine HP	Engine Shaft dia	Pump Group	Honda Motor	Bell housing Part Number	Coupling Part Number
2.2 - 4	3 - 5.5	18 mm ch.5	1	GX120 / GX160 / GX200	LMH151	ND500
		19.05 mm ch4.6	1	GX120 / GX160 / GX200	LMH151	ND510
5 - 13.5	6.6 - 18	25 mm ch.7	1	GX240/GX340/GX390/GX630	LMH401	ND600
		25 mm ch.7	2	GX240/GX340/GX390/GX630	LMH403	ND603
		1” ch.6.35	1	GX240/GX340/GX390/GX630	LMH401	ND610
		1” ch.6.35	2	GX240/GX340/GX390/GX630	LMH403	ND613
		25 mm ch.7	1		LB152-U1P	ND600
		25 mm ch.7	2		LB152-2	ND603
		1” ch.6.35	1		LB152-U1P	ND610
		1” ch.6.35	2		LB152-2	ND613
		25 mm ch.7	3		LB152-3U	ND606
		1” ch.6.35	3		LB152-3U	ND616
		25 mm ch.7	SAE A		LB152-825A	ND700
		1” ch.6.35	SAE A		LB152-825A	ND710
		25 mm ch.7	SAE B		LB152-101A	ND701
		1” ch.6.35	SAE B		LB152-101A	ND711

Imperial Size Drive Couplings for Pumps with 1:8 taper shaft

Many other shaft sizes available, please contact us…..

Gear Pump size with 1:8 Taper Shaft	Motor Shaft Size	Aluminium Drive Coupling
GROUP 1	3/4”	ND510
GROUP 1	1”	ND610
GROUP 2	3/4”	ND513
GROUP 2	1”	ND613
GROUP 3	1”	ND616

Large size Bell housings and Drive couplings for Electric Motors up to 355 kW are available with various Pump mountings.

Please contact us with your pump and Motor details…..

Damping Rods & Rings

Damping Rods are two steel rods moulded into a mineral oil resistant vulcanised rubber to fit between the electric motor and the tank cover. Damping Rods reduce the noise generated by the power transmission by approximately 3-5 dB.

Damping Rods Not pre machined for Electric Motor mount	Damping Rod with mounting threads for standard Electric Motors	Motor Frame Size	Motor KW
BMA-71	BMA-71-F	D71	0.25-0.37
BMA-71	BMA-80-F	D80	0.55-0.75
BMA-90	BMA-90L-F	D90L	1.1-1.5
BMA-90	BMA-90S	D90S	1.1-1.5
BMA-90	BMA-100L-F	D100L	2.2-4
BMA-90	BMA-112M-F	D112M	2.2-4
BMA-132	BMA-132S-F	D132S	5.5-9
BMA-132	BMA-132M-F	D132M	5.5-9
BMA-160L	BMA-160L-F	D160L	11-15
BMA-160M	BMA-160M-F	D160M	11-15
BMA-180	BMA-180L-F	D180L	18.5-22
BMA-180	BMA-180M-F	D180M	18.5-22
BMA-200	BMA-200L-F	D200L	30
BMA-225	BMA-225S-F	D225S	37-45
BMA-250	BMA-250M-F	D250M	55-75
BMA-280	BMA-280S-F	D280S	90
BMA-280	BMA-280M-F	D280M	90

BMA-F

BMA

Damping Rings for OMT Bell housings

Two rings moulded into a mineral oil resistant vulcanised rubber to fit between the bell housing and the tank cover. The Damping Rings will reduce the noise generated by the power transmission output by approximately 3-5 dB.

Damping Ring	Motor Frame	Bell housing size
A-200	80/90	LS200,LS201,LS203,LSE213,LSE206
A-250	100/112	LS250,LS252,LS253,LS255
A-300	132	LS300,LS302,LS306,LS310
A-350	160/180	LS350,LS352,LSE356,LSE358
A-400	200	LSE401,LSE405,LSE407

Electric Motors

Electric Induction Motors in Single and Three Phase

Single Phase, Cap Run/Cap Start from 0.18 - 3.7 Kw Power

Three Phase up to 315 Kw Power.

NSK high quality Bearings, IP55 standard Rating
IP66 option for Dusty or wet environments
Available in B34 & B35 Foot & Flange options

Single Phase Motors 220-240 V	Motor Frame Size	Material	4 Pole B14 Flange	4 Pole, 1450 rpm B5 Flange	4 Pole, 1450 rpm B35 Foot & Flange
0.18 KW	D63	Aluminium	SP0.18/B34	SP0.18/4PB5	SP0.18/4PB35
0.25 KW	D71	Aluminium	SP0.25/B34	SP0.25/4PB5	SP0.25/4PB35
0.37 KW	D71	Aluminium	SP0.37/B34	SP0.37/4PB5	SP0.37/4PB35
0.55 KW	D80	Aluminium	SP0.55/B34	SP0.55/4PB5	SP0.55/4PB35
0.75 KW	D80	Aluminium	SP0.75/B34	SP0.75/4PB5	SP0.75/4PB35
1.1 KW	D90	Aluminium	SP1.1/B34	SP1.1/4PB5	SP1.1/4PB35
1.5 KW	D90	Aluminium	SP1.5/B34	SP1.5/4PB5	SP1.5/4PB35
2.2 KW	D100 / D112	Aluminium	SP2.2/B34	SP2.2/4PB5	SP2.2/4PB35
3 KW	D100 / D112	Aluminium	SP3/B34	SP3/4PB5	SP3/4PB35
3.7 KW	D100 / D112	Aluminium		SP3.7/4PB5	SP3.7/4PB35

Three Phase Motors 220-240/380-420 v	Motor Frame Size	Material	4 Pole B14 Flange	4 Pole, 1450 rpm B5 Flange	4 Pole, 1450 rpm B35 Foot & Flange
0.18 KW	D63	Aluminium	TP0.18/B34	TP0,18/4PB5	TP0.18/4PB35
0.25 KW	D63	Aluminium	TP0.25/B34	TP0.25/4PB5	TP0.25/4PB35
0.37 KW	D71	Aluminium	TP0.37/B34	TP0.37/4PB5	TP0.37/4PB35
0.55 KW	D71	Aluminium	TP0.55/B34	TP0.55/4PB5	TP0.55/4PB35
0.75 KW	D80	Cast Iron	TP0.75/B34	TP0.75/4PB5	TP0.75/4PB35
1.1 KW	D90	Cast Iron	TP1.1/B34	TP1.1/4PB5	TP1.1/4PB35
1.5 KW	D90	Cast Iron	TP1.5/B34	TP1.5/4PB5	TP1.5/4PB35
2.2 KW	D100 / D112	Cast Iron	TP2.2/B34	TP2.2/4PB5	TP2.2/4PB35
3 KW	D100 / D112	Cast Iron	TP3/B34	TP3/4PB5	TP3/4PB35
4 KW	D100 / D112	Cast Iron	TP3/B34	TP4/4PB5	TP4/4PB35
5.5 KW	D132	Cast Iron	TP5.5/B34	TP5.5/4P5	TP5.5/4P35
7.5 KW	D132	Cast Iron	TP7.5/B34	TP7.5/4PB5	TP7.5/4PB35
9 KW	D132	Cast Iron		TP9/4PB5	TP9/4PB35
11 KW	D160	Cast Iron		TP11/4PB5	TP11/4PB35
15 KW	D160	Cast Iron		TP15/4PB5	TP15/4PB35
18.5 KW	D180	Cast Iron		TP18/4PB5	TP18/4PB35
22 KW	D180	Cast Iron		TP22/4PB5	TP22/4PB35
30 KW	D200	Cast Iron		TP30/4PB5	TP30/4PB35
37 KW	D225	Cast Iron		TP37/4PB5	TP37/4PB35
45 KW	D225	Cast Iron		TP45/4PB5	TP45/4PB35
55 KW	D250	Cast Iron		TP55/4PB5	TP55/4PB35
75 KW	D280	Cast Iron		TP75/4PB5	TP75/4PB35
90 KW	D280	Cast Iron		TP90/4PB5	TP90/4PB35

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Honda 4 Stroke Petrol Engines

4 Stroke Air Cooled Petrol Engines
3.6 kW (4.8 HP) up to 15.5 kW (20.8 HP)
High Power to displacement ratio
OHV Design enhances combustion efficiency
Exceeds European exhaust emission legislation
Low Fuel & Oil consumption
Easy starting with an automatic decompression system

Part number	Net Power @3600 rpm	Engine Type	Start System	Fuel Tank Volume Litre	Engine Shaft Size	Dry Weight kg
GX160UT2QXQ4	3.6 kW (4.8 HP)	Single Cylinder Air Cooled	Recoil Start	3.1 L	3/4" Parallel (19.05 mm)	15.1
GX160UT2QXE5	3.6 kW (4.8 HP)	Single Cylinder Air Cooled	Electric Start	3.1 L	3/4" Parallel (19.05 mm)	15.1
GX200UT2QX4	4.3 kW (5.8 HP)	Single Cylinder Air Cooled	Recoil Start	3.1 L	3/4" Parallel (19.05 mm)	16
GX200UT2QXE5	4.3 kW (5.8 HP)	Single Cylinder Air Cooled	Electric Start	3.1 L	3/4" Parallel (19.05 mm)	16
GX270UT2QXQ4	6.3 kW (8.4 HP)	Single Cylinder Air Cooled	Recoil Start	5.3 L	1" Parallel (25.4 mm)	25.8
GX270UT2QXE5	6.3 kW (8.4 HP)	Single Cylinder Air Cooled	Electric Start	5.3 L	1" Parallel (25.4 mm)	25.8
GX390UT2QXQ4	8.7 kW (11.7 HP)	Single Cylinder Air Cooled	Recoil Start	6.1 L	1" Parallel (25.4 mm)	31.7
GX390UT2QXE4	8.7 kW (11.7 HP)	Single Cylinder Air Cooled	Electric Start	6.1 L	1" Parallel (25.4 mm)	31.7
GX630QZE4	15.5 kW (20.8 HP)	Twin Engine Air Cooled	Electric Start	N/A	1" Parallel (25.4 mm)	44.4

For suitable Bell Housings and Drive Couplings see page 82...

For suitable Hydraulic Gear Pumps see pages 71-73...

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Standard DC Tail lift Packs

12, 24 or 48 Volt DC power units

2.1 cc/rev gear pump

Electric motor power 1.6kw or 2.1kw on 12 VDC, 2.2kw on 24 VDC

3, 5 or 8 Litre Plastic tank

5 or 10 litre Cylindrical Steel tank

Pressure 210 bar Continuous, 250 bar peak

Complete with suction strainer and filler breather

Relief valve is adjustable between 80-250 bar

Normally closed solenoid lowering valve with P line check valve

Part Number	Voltage	Motor Power	Pump displacement	Reservoir capacity litres	Reservoir type
TLP12/3P16	12DC	1600W	2.1 cc/rev	3	Square plastic
TLP12/3P21	12DC	2100W	2.1 cc/rev	3	Square plastic
TLP24/3P22	24DC	2200W	2.1 cc/rev	3	Square plastic
TLP12/5P16	12DC	1600W	2.1 cc/rev	5	Square plastic
TLP12/5P21	12DC	2100W	2.1 cc/rev	5	Square plastic
TLP24/5P22	24DC	2200W	2.1 cc/rev	5	Square plastic
TLP12/5S16	12DC	1600W	2.1 cc/rev	5	Cylindrical steel
TLP12/5S21	12DC	2100W	2.1 cc/rev	5	Cylindrical steel
TLP24/5S22	24DC	2200W	2.1 cc/rev	5	Cylindrical steel
TLP12/8P16	12DC	1600W	2.1 cc/rev	8	Square plastic
TLP12/8P21	12DC	2100W	2.1 cc/rev	8	Square plastic
TLP24/8P22	24DC	2200W	2.1 cc/rev	8	Square plastic
TLP12/10S16	12DC	1600W	2.1 cc/rev	10	Cylindrical steel
TLP12/10S/21	12DC	2100W	2.1 cc/rev	10	Cylindrical steel
TLP24/10S22	24DC	2200W	2.1 cc/rev	10	Cylindrical steel

Options	Description
P0201	2 BUTTON WIRED PENDANT CONTROL
P0202	4 BUTTON WIRED PENDANT CONTROL
F16000001	MOTOR PLASTIC COVER
E60543006	FOOT MOUNTING BRACKET

Hydraulic Power Packs

Micro & Compact bespoke AC & DC Power packs

AC & DC Motors to 4KW. Pressure up to 300 bar

Single, Double & Reversible circuits for all applications

Options of hand pumps, pressure & flow controls, 2, 3 & 4 way manual or solenoid operated directional valves

Large stock of components to offer a quick build time and delivery

Bespoke design Hydraulic Power Units manufactured to customers specifications and suitable for a wide range of applications

Please contact us with your requirements.....

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Oil Tanks

CP Aluminium Tanks complete with Lid, gasket & drain Plug

Nominal capacity corresponds to 2/3 of the total volume

Aluminium Tanks	Nominal Capacity Litres	Level/temperature gauge size mm	Height mm	Width mm	Length mm
CP3GC	3	—-	150	160	220
CP6GC	6	—-	176	200	280
CP10GC	10	—-	220	247	340
CP10GC-LG1T	10	76	220	247	340
CP16GC	16	—-	243	290	368
CP16GC-LG1T	16	76	243	290	368
CP25MGC	25	—-	285	340	490
CP25MGC-LG2T	25	127	285	340	490
CP55GC	55	—-	315	415	515
CP55GC-LG2T	55	127	315	415	515
CP75GC	75	—-	365	465	605
CP75GC-LG2T	75	127	365	465	605

CF / CFP Steel Tanks complete with Lid, gasket & drain Plug

Oil and rust proof treated

Nominal capacity corresponds to 2/3 of the total volume

Steel Tanks	CF12 GC	CF16 GC	CF 30 GC	CF55 GC	CF75 GC	CF 100 GC	CF180 GC	CFP225 GC	CFP300 GC	CFP400 GC
Nominal Capacity (Litres)	14	22	39	58	75	100	165	205	245	390
HEIGHT (including feet) (mm)	290	305	335	365	455	505	555	640	700	720
WIDTH (mm)	270	325	375	470	470	520	620	600	700	765
LENGTH (mm)	335	410	470	600	600	675	805	900	900	1260

Oil Tanks

FC TANK

FC-INT TANK

FD TANK

FC Steel Tanks.. Foot Mounted sealed Hydraulic tanks

Supplied with Filler breather, sight level gauge, 10 Micron Tank top return Filter and drain valve.

FC Tanks	Nominal Capacity Litres	Max Return Flow through Tank top filter l/min	Oil Return Port size bsp	Length mm	Width mm	Height mm
FC20-091C10NA	20	40	1/2”	440	260	260
FC40-111C10NA1	40	81	3/4”	600	280	280
FC40-112C10NA1	40	100	3/4”	600	280	280
FC55-112C10NA1	55	100	3/4”	680	300	300
FC55-171C10NA	55	214	1 1/4”	680	300	300
FC75-171C10NA	75	214	1 1/4”	800	320	320
FC75-221C10NA1	75	276	1 1/2”	800	320	320

FC-INT Steel Tanks.. Side Mounted sealed Hydraulic tanks

Supplied with Filler breather, sight level gauge, 10 Micron Tank top return Filter and drain valve.

FC INT Tanks	Nominal Capacity Litres	Max Return Flow through Tank top filter l/min	Oil Return Port size bsp	Length mm	Width mm	Height mm
FC20INT -091C10NA	20	40	1/2”	440	260	260
FC40INT-111C10NA1	40	81	3/4”	600	280	280
FC40INT-112C10NA1	40	100	3/4”	600	280	280
FC55INT-112C10NA1	55	100	3/4”	680	300	300
FC55INT-171C10NA	55	214	1 1/4”	680	300	300
FC75INT-171C10NA	75	214	1 1/4”	800	320	320
FC75INT-221C10NA1	75	276	1 1/2”	800	320	320

FD Steel Tanks.. Bracket Mounted sealed Hydraulic tanks

Supplied with Filler breather, sight level gauge, 10 Micron Tank top return Filter and drain valve.

FD Tanks	Nominal Capacity Litres	Max Return Flow through Tank top filter l/min	Oil Return Port size bsp	Length mm	Width mm	Height mm
FD27-112C10NA2	20	100	1”	565	170	345
FD45-112C10NA2	45	100	1”	650	190	420
FD75-112C10NA2	75	100	1”	765	210	520
FD130-112C10NA2	130	100	1”	890	280	570

Tank Inspection Covers & Electric Oil Level Switches

Inspection covers for Oil Tanks

Die cast Aluminium supplied with a Gasket

Part Number	Diameter	Number of Mounting holes	Size of Mounting holes
SI 275G	275 mm	6	9 mm
SI 400G	400 mm	8	9 mm
SE 350G	350 mm	4	11.5 mm
SE 475G	475 mm	6	11.5 mm

Electric Oil Level Switches

An electrical signal is supplied when the min. or max. (or both) oil levels are reached.
Available in a Flange mount or a M18x1.5 mm male thread mount
Normally closed electrical switch.

Flange mount … Minimum Level	Min & Max Level	Depth of Rod Into tank (mm	Suitable for Tank type
LM1F-130	LM2F-130	130	CF12, CF16
LMIF-150	LM2F-150	150	CF30, CF75
LM1F-200	LM2F-200	200	CF100, CF180
LM1F-250	LM2F-250	250	CF100, CF180,CFP225
LM1F-300	LM2F-300	300	CF180, CFP225
LM1F-350	LM2F-350	350	CFP225, CFP300
LM1F-400	LM2F-400	400	CFP300, CFP400
LM1F-450	LM2F-450	450	
LM1F-500	LM2F-500	500	

Threaded mount … Minimum Level	Min & Max Level	Depth of Rod Into tank mm	Suitable for Tank type
LM1D-130	LM2D-130	130	CF12, CF16
LMID-150	LM2D-150	150	CF30, CF75
LM1D-200	LM2D-200	200	CF100, CF180
LM1D-250	LM2D-250	250	CF100, CF180,CFP225
LM1D-300	LM2D-300	300	CF180, CFP225
LM1D-350	LM2D-350	350	CFP225, CFP300
LM1D-400	LM2D-400	400	CFP300, CFP400
LM1D-450	LM2D-450	450	
LM1D-500	LM2D-500	500	

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Filler Breathers

Filler Breathers Chrome
Chrome plated Steel with Bayonet Closure

Part Number	Outside Diameter	Width of Basket	Length of Basket
TR1	52 mm	27 mm	65 mm
TP1.02601	83 mm	50 mm	80 mm
TP1.02602	83 mm	50 mm	150 mm
TP1.02603	83 mm	50 mm	203 mm


Filler Breathers Lockable
Chrome plated Steel with Key lockable cap

Part Number	Outside Diameter	Width of Basket	Length of Basket
TRC-2	83 mm	50 mm	80 mm
TRC-3	83 mm	50 mm	150 mm


Filler Breathers Nylon
Nylon with M52 x 2 threaded connection

Part Number	Connection type	Outside Diameter	Width of Basket	Length of Basket
TPB-2D	Basket Mounted 6 x 5 mm screws Cap M52 x 2 Threaded	91	44 mm	110 mm
TPM-2M52	M52 x 2 mm	91	——	——


Weldable Filler Breather and Extension Bracket
Chrome Plated Steel with Bayonet closure, with extractable basket and rubber gasket
PV9.01746 Angled extension is suitable for all Breathers type TP1

Part Number	Outside Diameter	Outside Diameter of collar	Total Length
TRBS WELDABLE BREATHER	83 mm	38 mm	180 mm
PV9.01746 ANGLED EXTENSION			


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Air Breathers & Filler Caps

Air Breather Caps, bsp male thread

Chrome plated Steel with BSP Thread, 40 Micron

Part Number	BSP Thread	Micron	Outside Diameter mm	Recommended Air Flow m^3/hour
TP8.02613	1/4”	40	48	15
TRM-1-14S1	1/4”	10	47	9
TRM-1-38	3/8”	40	47	15
TRM-1-38S1	3/8”	10	47	15
TRM-1-12	1/2”	40	47	15
TRM-1-12S1	1/2”	10	47	15
TRM-2-12	1/2”	40	75	21
TRM-2-12S1	1/2”	10	75	21
TP8.02614	3/4”	40	76	42
TPM-2-34S1	3/4”	10	76	42
TRVM34-035 Pressurised 35 bar	3/4”	40	75	42
TRM-2-100	1”	40	75	60
TRM-100-S1	1”	10	75	6

Plastic Filler Plugs

Inner Breather and filter, made from black polyamide with red cover
For applications with high oil spray a sintered bronze air filter is available, add suffix ‘B’

Part Number	Male Thread size bsp	Micron & filter material	Outside Diameter of cap mm	Air Flow m^3/h
TPL.38	3/8”	40 sponge	36	12
TPL.38B	3/8”	30 bronze	36	12
TPL.12	1/2”	40 sponge	41	13.8
TPL.12B	1/2”	30 bronze	41	13.8
TPL.34	3/4”	40 sponge	47	21
TPL.34B	3/4”	40 bronze	47	21
TPL.1	1”	40 sponge	52	24
TPL.1B	1”	40 bronze	52	24
TPL.114	1 1/4”	40 sponge	63	36
TPL.114B	1 1/4”	40 bronze	63	36
TPL.112	1 1/2”	40 sponge	63	36
TPL.112B	1 1/2”	30 bronze	63	36

Visual Oil Level Plugs

Option of Polyamide Plastic or Aluminium alloy caps, bsp male thread

Plastic type	Material	Male Thread size bsp	Max Pressure bar	Diameter of cap mm
SL.14	Polyamide Plastic	1/4”	10	20.5
SLM.14	Metal	1/4”	20	20.5
SL.38	Polyamide Plastic	3/8”	10	22
SLM.38	Metal	3/8”	20	22
SL.12	Polyamide Plastic	1/2”	10	28
SLM.12	Metal	1/2”	20	28
SL.34	Polyamide Plastic	3/4”	10	36
SLM.34	Metal	3/4”	20	36
SL.1	Polyamide Plastic	1”	10	42
SLM.1	Metal	1”	20	42
SL.114	Polyamide Plastic	1 1/4”	10	51
SLM.114	Metal	1 1/4”	20	51
SL.112	Polyamide Plastic	1 1/2”	10	58
SL.2	Polyamide Plastic	2”	10	74

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Sight Level Gauges

Sight Level & Temperature Gauges

Various models available with mounting hole centres of 76 mm, 127 mm and 254 mm
Glass Body with Nylon end caps and in a Aluminium cover

Aluminium	Hole centres mm	Bolt size	Total length mm
L05.076TE	76	M10 STANDARD	116
L05.076TE1	76	M12	116
L05.127TE	127	M12 STANDARD	177
L05.127TE1	127	M10	177
L05.254TE	254	M12 STANDARD	285
L05.254TE1	254	M10	285

Sight Level & Temperature Gauges Plastic

Various models available with mounting hole centres of 76 mm, 127 mm and 254 mm
Available with a Aluminium cover if required (Type 'P')

Plastic	Hole centres mm	Aluminium Cover	Bolt size	Total length mm
LT1TM10	76 mm	No	M10	111 mm
LT1TPM10	76 mm	Yes	M10	116 mm
LT2TM12	127 mm	No	M12	162 mm
LT2TPM12	127 mm	Yes	M12	166 mm

Visual & Electric Sight Level Gauges

Various models available with mounting hole centres of 127 mm and 254 mm
Normally Open 'E' or double Switch type 'S'

Part Number	Hole centres mm	Switch Type	Voltage	Bolt Size
LV2E	127	Normally open	3-230V	M12
LV2S	127	Double Switch	3-115V	M12
LV3E	254	Normally open	2-230V	M12

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Suction Strainers

Oil Suction Strainers, Galvanised Steel bsp connection

Part Ref	Flow Rate l/min	Thread bsp	Micron	Length mm	Diameter mm
FR5.02361	6	1/4”	90	37	32
FR5.02334	10	1/4”	90	32	50
FR1.02360	12	3/8”	90	39	32
FR1.06600	15	3/8”	160	55	45
FR1.04483	17	3/8”	160	75	45
FI1.10M90	19	3/8”	90	89	50
FI2.10M90	25	1/2”	90	89	50
FI2.15M90	29	1/2”	90	93	69
FR2.04485	40	3/4”	160	110	63
FI3.15M90	45	3/4”	90	93	69
FI3.20M90	55	3/4”	90	142	69
FI4.20M90	58	1”	90	142	69
FI4.25M90	59	1”	90	94	100
FI4.30M90	84	1”	90	143	100
FR8.06625	80	1”	160	144	89
FI5.30M90	115	1 1/4”	90	143	100
FI5.35M90	120	1 1/4”	90	180	100
FI5.40M90	138	1 1/4”	90	230	100
FI5.45M90	128	1 1/4”	90	93	140
FI6.40M90	136	1 1/2”	90	230	100
FI6.50M90	136	1 1/2”	90	105	140
FI6.55M90	160	1 1/2”	90	165	140
FR8.04489	145	1 1/2”	160	200	89
FI7.55M90	200	2”	90	165	140
FI7.60M90	235	2”	90	213	140
FI7.65M90	240	2”	90	260	140
FI7.70M90	245	2”	90	320	140
FI8.65M90	300	2 1/2”	90	268	140
FI8.70M90	320	2 1/2”	90	326	140
FI9.70M90	400	3”	90	290	150
FR8.04493	500	3”	160	270	150

Oil Suction Strainers, Nylon bsp connection

Part Ref	Flow Rate l/min	Thread bsp	Micron	Length mm	Diameter mm
FRP1.07400	10	3/8”	125	58	46
FRP1.07401	16	3/8”	125	73	46
FRP1.07402	18	3/8”	125	93	46
FRP2.07403	23	1/2”	125	123	46
FRP3.07404	48	3/4”	125	130	64
FRP4.07405	62	1”	125	161	64
FRP4.07406	80	1”	125	165	86
FRP5.07407	75	1 1/4”	125	165	86
FRP6.07408	100	1 1/2”	125	165	86
FRP6.07409	130	1 1/2”	125	225	86
FRP7.07410	180	2”	125	286	86
FRP7.07411	225	2”	125	178	150
FRP8.07412	350	2 1/2”	125	243	150
FRP9.07413	500	3”	125	303	150

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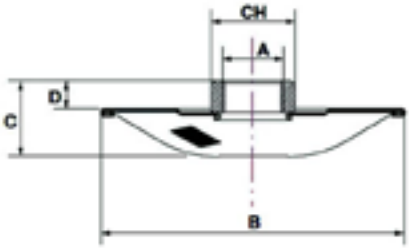
Micro Suction Strainers

Suction Strainers for Micro Hydraulic Power Units

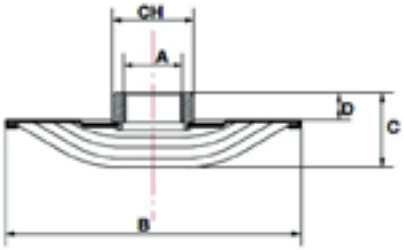
Suction Line Filters with bsp threaded connection.
Metal mesh fabric with galvanised steel ends

Part Ref	Flow Rate l/min	Thread Bsp A	B	C	D	CH	Type	Filtering Surface cm2	Micron Rating
FR5.06694	4	1/4”	32	13	6	22	1	9	90
FR5.01752	7	1/4”	63	14	5	22	1	30	90
FR5.04265	7	1/4”	63	17	7	22	2	45	60
FR5.03506	7	1/4”	80	17	5	22	1	53	90
FR5.03546	9	1/4”	63	14	5	22	1	30	250
FR5.04465	9	1/4”	63	14	5	22	1	30	250
FR5.03503	9	1/4”	63	17	7	22	2	45	90
FR5.04434	12	1/4”	63	27.5	17.5	19	4	45	90
FR1.02395	12	1/4”	80	23	5	22	2	200	90
FR1.06692	5	3/8”	32	15	8	22	1	9	90
FR1.04216	6	3/8”	80	17	7	22	2	200	60
FR1.02319	10	3/8”	63	16	7	22	1	30	90
FR1.04386	11	3/8”	63	16	7	22	1	30	200
FR1.03570	12	3/8”	63	16	7	22	1	30	250
FR1.02396	12	3/8”	63	17	7	22	2	45	90
FR1.04398	12	3/8”	80	17	7	22	1	53	90
FR1.04391	12	3/8”	80	25	7	22	3	200	90
FR1.02394	13	3/8”	80	17	7	22	1	53	250
FR1.03581	13	3/8”	80	17	7	22	1	53	200
FR1.01775	13	3/8”	63	20	8	22	2	120	250
FR1.03571	14	3/8”	80	21	7	22	2	100	250
FR1.02392	14	3/8”	80	25	7	22	2	200	90
FR1.02374	15	3/8”	80	33	20.5	22	4	53	250
FR1.03572	20	3/8”	80	35	20.5	22	4	200	250
FR3.04355	22	1/2”	80	43	26.5	25	4	200	250
FR2.04356	28	3/4”	80	43	26	36	4	200	90
FR8.04357	32	1”	80	52	35.5	46	4	200	90

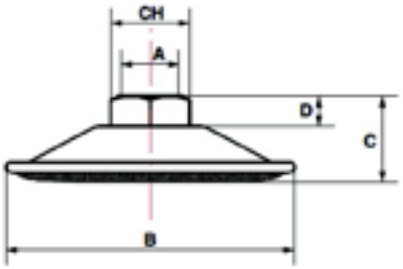
Type 1 Plain



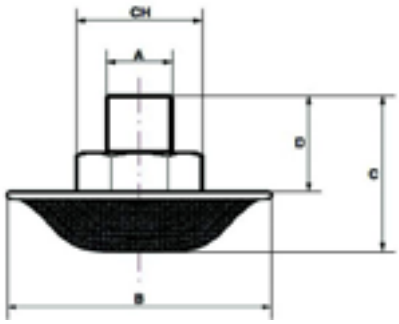
Type 2 Pleated



Type 3 Bell Shaped



Type 4 Sloped



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Spin on Filters

Return Line Spin on Filters

For Installation on the Return line with various filtration media
Bypass head opens at 1.7 bar. Max operating pressure 12 bar

Complete Filter Part No.	bsp	Flow l/min	Micron Rating	Filtration Media	Canister Part No	Canister length mm	Head Part number
THL.10ST2+FHL.1M10	3/4”	64	10	Resin treated Cellulose	FHL.1M10	147	THL.10ST2
THL.10ST2+FHL.1M25	3/4”	72	25	Resin treated Cellulose	FHL.1M25	147	THL.10ST2
THL.10ST2+FHL.1A03	3/4”	50	3 absolute	Inorganic Fibre	FHL.1A03	147	THL.10ST2
THL.10ST2+FHL.1A06	3/4”	51	6 absolute	Inorganic Fibre	FHL.1A06	147	THL.10ST2
THL.10ST2+FHL.1A10	3/4”	62	10 absolute	Inorganic Fibre	FHL.1A10	147	THL.10ST2
THL.10ST2+FHL.2M10	3/4”	71	10	Resin treated Cellulose	FHL.2M10	192	THL.10ST2
THL.10ST2+FHL.2M25	3/4”	77	25	Resin treated Cellulose	FHL.2M25	192	THL.10ST2
THL.10ST2+CS06FN	3/4”	53	3 absolute	Inorganic Fibre	CS06FN	190	THL.10ST2
THL.10ST2+CS06NN	3/4”	61	6 absolute	Inorganic Fibre	CS06NN	190	THL.10ST2
THL.10ST2+FHL.2A10	3/4”	64	10 absolute	Inorganic Fibre	FHL.2A10	165	THL.10ST2
THL.20ST2+FHL.3M10	1 1/4”	158	10	Resin treated Cellulose	FHL.3M10	182	THL.20ST2
THL.20ST2+FHL.3M25	1 1/4”	170	25	Resin treated Cellulose	FHL.3M25	182	THL.20ST2
THL.20ST2+FHL.3A03	1 1/4”	83	3 absolute	Inorganic Fibre	FHL.3A03	182	THL.20ST2
THL.20ST2+FHL.3A06	1 1/4”	105	6 absolute	Inorganic Fibre	FHL.3A06	182	THL.20ST2
THL.20ST2+FHL.3A10	1 1/4”	128	10 absolute	Inorganic Fibre	FHL.3A10	182	THL.20ST2
THL.20ST2+FHL.4M10	1 1/4”	164	10	Resin treated Cellulose	FHL.4M10	228	THL.20ST2
THL.20ST2+FHL.4M25	1 1/4”	182	25	Resin treated Cellulose	FHL.4M25	228	THL.20ST2
THL.20ST2+CS15FN	1 1/4”	120	3 absolute	Inorganic Fibre	CS15FN	226	THL.20ST2
THL.20ST2+CS15NN	1 1/4”	128	6 absolute	Inorganic Fibre	CS15NN	226	THL.20ST2
THL.20ST2+FHL.4A10	1 1/4”	144	10 absolute	Inorganic Fibre	FHL.4A10	228	THL.20ST2
THL.30ST2+FHL.3M10X2	1 1/2”	300	10	Resin treated Cellulose	FHL.3M10X2	182	THL.30ST2
THL.30ST2+FHL.3M25X2	1 1/2”	330	25	Resin treated Cellulose	FHL.3M25X2	182	THL.30ST2
THL.30ST1+FHL.3A03X2	1 1/2”	165	3 absolute	Inorganic Fibre	FHL.3A03X2	182	THL.30ST2
THL.30ST1+FHL.3A06X2	1 1/2”	210	6 absolute	Inorganic Fibre	FHL.3A06X2	182	THL.30ST2
THL.30ST1+FHL.3A10X2	1 1/2”	250	10 absolute	Inorganic Fibre	FHL.3A10X2	182	THL.30ST2
THL.30ST2+FHL.4M10X2	1 1/2”	315	10	Resin treated Cellulose	FHL.4M10X2	228	THL.30ST2
THL.30ST2+FHL.4M25X2	1 1/2”	350	25	Resin treated Cellulose	FHL.4M25X2	228	THL.30ST2
THL.30ST2+CS15FNX2	1 1/2”	235	3 absolute	Inorganic Fibre	CS15FNX2	226	THL.30ST2
THL.30ST2+CS15NNX2	1 1/2”	250	6 absolute	Inorganic Fibre	CS15NNX2	226	THL.30ST2
THL.30ST2+FHL.4A10X2	1 1/2”	280	10 absolute	Inorganic Fibre	FHL.4A10X2	228	THL.30ST2
THL.40ST2+FHL.3M10X2	1 1/2”	300	10	Resin treated Cellulose	FHL.3M10X2	182	THL.40ST2
THL.40ST2+FHL.3M25X2	1 1/2”	330	25	Resin treated Cellulose	FHL.3M25X2	182	THL.40ST2
THL.40ST2+FHL.3A03X2	1 1/2”	165	3 absolute	Inorganic Fibre	FHL.3A03X2	182	THL.40ST2
THL.40ST2+FHL.3A06X2	1 1/2”	210	6 absolute	Inorganic Fibre	FHL.3A06X2	182	THL.40ST2
THL.40ST2+FHL.3A10X2	1 1/2”	250	10 absolute	Inorganic Fibre	FHL.3A10X2	182	THL.40ST2
THL.40ST2+FHL.4M10X2	1 1/2”	315	10	Resin treated Cellulose	FHL.4M10X2	228	THL.40ST2
THL.40ST2+FHL.4M25X2	1 1/2”	350	25	Resin treated Cellulose	FHL.4M25X2	228	THL.40ST2
THL.40ST2+CS15FNX2	1 1/2”	235	3 absolute	Inorganic Fibre	CS15FNX2	226	THL.40ST2
THL.40ST2+CS15NNX2	1 1/2”	250	6 absolute	Inorganic Fibre	CS15NNX2	226	THL.40ST2
THL.40ST2+FHL.4A10X2	1 1/2”	280	10 absolute	Inorganic Fibre	FHL.4A10X2	228	THL.40ST2

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Spin on Filters

Suction Line Spin on Filters

For Installation on the Suction line with various filtration media
Bypass head opens at 0.25 bar. Max operating pressure 5 bar

Complete Filter Part number	bsp	Flow l/min	Micron Rating	Filtration Media	Canister Part number	Canister length mm	Head Part number
THL.10ST1+FHL.1M60	3/4”	35	60	Metal Mesh	FHL.1M60	147	THL10ST1
THL.10ST1+FHL.1MCV	3/4”	35	125	Metal Mesh	FHL.1MCV	147	THL10ST1
THL.10ST1+FHL.2M60	3/4”	45	60	Metal Mesh	FHL.2M60	192	THL10ST1
THL.10ST1+FHL.2MCV	3/4”	45	125	Metal Mesh	FHL.2MCV	192	THL10ST1
THL.20ST1+FHL.3M60	1 1/4”	110	60	Metal Mesh	FHL.3M60	182	THL20ST1
THL.20ST1+FHL.3MCV	1 1/4”	110	125	Metal Mesh	FHL.3MCV	182	THL20ST1
THL.20ST1+FHL.4M60	1 1/4”	125	60	Metal Mesh	FHL.4M60	228	THL20ST1
THL.20ST1+FHL.4MCV	1 1/4”	125	125	Metal Mesh	FHL.4MCV	228	THL20ST1
THL.30ST1+FHL.3M60X2	1 1/2”	165	60	Metal Mesh	FHL.3M60X2	180	THL30ST1
THL.30ST1+FHL.3MCVX2	1 1/2”	165	125	Metal Mesh	FHL.3MCVX2	180	THL30ST1
THL.30ST1+FHL.4M60X2	1 1/2”	170	60	Metal Mesh	FHL.4M60X2	228	THL30ST1
THL.30ST1+FHL.4MCVX2	1 1/2”	170	125	Metal Mesh	FHL.4MCVX2	228	THL30ST1
THL.40ST1+FHL.3M60X2	1 1/2”	165	60	Metal Mesh	FHL.3M60X2	182	THL40ST1
THL.40ST1+FHL.3MCVX2	1 1/2”	165	125	Metal Mesh	FHL.3MCVX2	182	THL40ST1
THL.40ST1+FHL.4M60X2	1 1/2”	170	60	Metal Mesh	FHL.4M60X2	228	THL40ST1
THL.40ST1+FHL.4MCVX2	1 1/2”	170	125	Metal Mesh	FHL.4MCVX2	228	THL40ST1

Tank Top Return Vertical Canisters & Heads

Head Part Number	Type	Ports bsp
THR.10ST	Return Line	3/4”
THR.20ST	Return Line	1 1/4”

Canister Part Number	Flow l/min	Canister length mm	Micron Rating	Filtration Media
FHR.1M10	68	145	10	Resin treated Cellulose
FHR.1M25	73	145	25	Resin treated Cellulose
FHR.2M10	74	190	10	Resin treated Cellulose
FHR.2M25	80	190	25	Resin treated Cellulose
FHR.3M10	130	180	10	Resin treated Cellulose
FHR.3M25	170	180	25	Resin treated Cellulose
FHR.4M10	150	226	10	Resin treated Cellulose
FHR.4M25	188	226	25	Resin treated Cellulose

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Tank Top Filters

AFR Suction & Return line Filters

Made from die cast Aluminium, Operating pressure 15 bar
Burst pressure 45 bar, Element collapse pressure 10 bar

Suction Line Part Number	Port Size bsp	Flow rate l/min	Micron Rating	Filtration Medium	Spare Element Part Number
AFR30R60NA	1/2”	12	60	Square Mesh Aisi 304	CR091R60NA
AFR30R125NA	1/2”	15	125	Square Mesh Aisi 304	CR091R125NA
AFR60R60NA	3/4”	27	60	Square Mesh Aisi 304	CR111R60NA
AFR60R125NA	3/4”	30	125	Square Mesh Aisi 304	CR111R125NA
AFR100R60NA	1”	47	60	Square Mesh Aisi 304	CR112R60NA
AFR100R125NA	1”	50	125	Square Mesh Aisi 304	CR112R125NA
AFR180R60NA	1 1/4”	69	60	Square Mesh Aisi 304	CR171R60NA
AFR180R125NA	1 1/4”	80	125	Square Mesh Aisi 304	CR171R125NA
Return Line Part Number	**Port Size bsp**	**Flow rate l/min**	**Micron Rating**	**Filtration Medium**	**Spare Element Part Number**
AFR30C10NR	1/2”	16	10	Resin Coated Cellulose	CR091C10NR
AFR30C25NR	1/2”	20	25	Resin Coated Cellulose	CR091C25NR
AFR30F10NR	1/2”	13	10	Inorganic Fibre	CR091F10NR
AFR60C10NR	3/4”	49	10	Resin Coated Cellulose	CR111C10NR
AFR60C25NR	3/4”	65	25	Resin Coated Cellulose	CR111C25NR
AFR60F10NR	3/4”	32	10	Inorganic Fibre	CR111F10NR
AFR100C10NR	1”	85	10	Resin Coated Cellulose	CR112C10NR
AFR100C25NR	1”	110	25	Resin Coated Cellulose	CR112C25NR
AFR100F10NR	1”	56	10	Inorganic Fibre	CR112F10NR
AFR180C10NR	1 1/4”	150	10	Resin Coated Cellulose	CR171C10NR
AFR180C25NR	1 1/4”	189	25	Resin Coated Cellulose	CR171C25NR
AFR180F10NR	1 1/4”	123	10	Inorganic Fibre	CR171F10NR

OMTP Tank Top Return Filters

with breathing element and service cover
Flow rates up to 150 l/min
10 or 40 Micron Air Breathing Filtration
Aluminium Head, Glass Reinforced Nylon Bowl and Cover
Max Working Pressure 10 bar
Element Collapse Pressure 5 bar, Bypass valve pressure 1.5 bar

Part Number	bsp	Flow l/min	Filtration Micron & Filter Medium	Breathing Element Micron	Tank Drilling dia mm	Bowl Length mm	Spare Element Part Number
OMTP020C10NA	1/2”	35	10 Resin Coated Cellulose	10 paper	60	178	OMTPR020C10N
OMTP020C25NB	1/2”	35	25 Resin Coated Cellulose	40 paper	60	178	OMTPR020C25N
OMTP020C10NA	1/2”	40	10 Resin Coated Cellulose	10 paper	60	178	OMTPR020C10N
OMTP020C25NB	1/2”	40	25 Resin Coated Cellulose	40 paper	60	178	OMTPR020C25N
OMTP101C10NA	3/4”	60	10 Resin Coated Cellulose	10 paper	60	110	OMTPR101C10N
OMTP101C25NB	3/4”	60	25 Resin Coated Cellulose	40 paper	60	110	OMTPR101C25N
OMTP102C10NA	3/4”	80	10 Resin Coated Cellulose	10 paper	60	175	OMTPR102C10N
OMTP102C25NB	3/4”	80	25 Resin Coated Cellulose	40 paper	60	175	OMTPR102C25N
OMTP103C10NA	3/4”	100	10 Resin Coated Cellulose	10 paper	60	275	OMTPR103C10N
OMTP103C25NB	3/4”	100	25 Resin Coated Cellulose	40 paper	60	275	OMTPR103C25N
OMTP103C10N2A	1”	150	10 Resin Coated Cellulose	10 paper	60	275	OMTPR103C10N
OMTP103C25NB2	1”	150	25 Resin Coated Cellulose	40 paper	60	275	OMTPR103C25N

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SIF Tank Top Return Filters

Mounted Semi immersed into the tank
Flow rates up to 380 l/min, Aluminium Head & cover
Operating pressure 3 bar, Burst pressure 10 bar

Part Number	Port Size bsp	Flow rate l/min	Micron Rating	Tank Drilling dia mm	Filtration Medium	Spare Element Part No
SIF.10A10	1/2”	40	10	66	Resin Coated Cellulose	FXR.A3M10C
SIF.10A30	1/2”	45	25	66	Resin Coated Cellulose	FXR.A3M30C
SIF.10A10A	1/2”	25	10 absolute	66	Micro Fibreglass	FXR.A3M10A
SIF.15B10	3/4”	73	10	86	Resin Coated Cellulose	FXR.A5M10C
SIF.15B30	3/4”	78	25	86	Resin Coated Cellulose	FXR.A5M30C
SIF.15B10A	3/4”	50	10 absolute	86	Micro Fibreglass	FXR.A5M10A
SIF.20C10	1”	95	10	86	Resin Coated Cellulose	FXR.A6M10C
SIF.20C30	1”	100	25	86	Resin Coated Cellulose	FXR.A6M30C
SIF.20C10A	1”	70	10 absolute	86	Micro Fibreglass	FXR.A6M10A
SIF.20D10	1”	195	10	129	Resin Coated Cellulose	FXR.A8M10C
SIF.20D30	1”	200	25	129	Resin Coated Cellulose	FXR.A8M30C
SIF.20D10A	1”	170	10 absolute	129	Micro Fibreglass	FXR.A8M10A
SIF.25D10	1 1/4”	230	10	129	Resin Coated Cellulose	FXR.A8M10C
SIF.25D30	1 1/4”	240	25	129	Resin Coated Cellulose	FXR.A8M30C
SIF.25D10A	1 1/4”	205	10 absolute	129	Micro Fibreglass	FXR.A8M10A
SIF.25E10	1 1/4”	255	10	173	Resin Coated Cellulose	FXR.A0M10C
SIF.25E30	1 1/4”	265	25	173	Resin Coated Cellulose	FXR.A0M30C
SIF.25E10A	1 1/4”	230	10 absolute	173	Micro Fibreglass	FXR.A0M10A
SIF.30E10	1 1/2”	270	10	173	Resin Coated Cellulose	FXR.A0M10C
SIF.30E30	1 1/2”	280	25	173	Resin Coated Cellulose	FXR.A0M30C
SIF.30E10A	1 1/2”	245	10 absolute	173	Micro Fibreglass	FXR.A0M10A
SIF.30F10	1 1/2”	320	10	173	Resin Coated Cellulose	FXR.B1M10C
SIF.30F30	1 1/2	330	25	173	Resin Coated Cellulose	FXR.B1M30C
SIF.30F10A	1 1/2	295	10 absolute	173	Resin Coated Cellulose	FXR.B1M10A
SIF.30G10	1 1/2”	340	10	173	Resin Coated Cellulose	FXR.B2M10C
SIF.30G30	1 1/2”	350	25	173	Resin Coated Cellulose	FXR.B2M30C
SIF.30G10A	1 1/2”	315	10 absolute	173	Micro Fibreglass	FXR.B2M10A
SIF.35H10	2”	480	10	173	Resin Coated Cellulose	FXR.B3M10C
SIF.35H30	2”	500	25	173	Resin Coated Cellulose	FXR.B3M30C
SIF.35H10A	2”	430	10 absolute	173	Micro Fibreglass	FXR.B3M10A

Filter Clogging Indicators

Visual gauge and electrical switch type clogging indicators

Description	Manufacturer	Part Number
Return line gauge 0 –12 bar 40mm	FBN	IND.02616
Return line gauge 0 –12 bar 40mm	OMT	PV1
Suction Line gauge Cm Hg Vaccum 40mm	FBN	IND.02617
Return Line Electrical Normally Open switch 0-2 bar	FBN	IND.02618
Electrical Indicator Normally Open switch 1.3 Bar	OMT	PE1
Electrical Indicator Normally Closed switch 1.3 Bar	OMT	PE2
Electrical Indicator Changeover type switch 1.3 Bar	OMT	PE3

High Pressure Filters

HMM High Pressure Filter

220 bar Max Pressure

Flow rates up to 170 l/min

Aluminium head and Steel bowl

Bypass 6 bar

Part Number	bsp	Max Flow l/min	Max Pressure bar	Filtration Micron	Element Filtration type	Total Length mm	Bowl dia mm	Head dia mm	Spare Element Part Number
HMM281F03XNR	1/2”	17	220	3	Inorganic Fibre	189	70	87	CHP281F03XN
HMM281F06XNR	1/2”	20	220	6	Inorganic Fibre	189	70	87	CHP281F06XN
HMM281F10XNR	1/2”	35	220	10	Inorganic Fibre	189	70	87	CHP281F10XN
HMM281F25XNR	1/2”	50	220	25	Inorganic Fibre	189	70	87	CHP281F25XN
HMM282F03XNR1	3/4”	26	220	3	Inorganic Fibre	219	70	87	CHP282F03XN
HMM282F06XNR1	3/4”	40	220	6	Inorganic Fibre	219	70	87	CHP282F06XN
HMM282F10XNR1	3/4”	55	220	10	Inorganic Fibre	219	70	87	CHP282F10XN
HMM282F25XNR1	3/4”	80	220	25	Inorganic Fibre	219	70	87	CHP282F25XN
HMM283F03XNR1	3/4”	38	220	3	Inorganic Fibre	319	70	87	CHP283F03XN
HMM283F06XNR1	3/4”	50	220	6	Inorganic Fibre	319	70	87	CHP283F06XN
HMM283F10XNR1	3/4”	70	220	10	Inorganic Fibre	319	70	87	CHP283F10XN
HMM283F25XNR1	3/4”	95	220	25	Inorganic Fibre	319	70	87	CHP283F25XN
HMM421F03XNR	3/4”	55	220	3	Inorganic Fibre	277	78	113	CHP421F03XN
HMM421F06XNR	3/4”	65	220	6	Inorganic Fibre	277	78	113	CHP421F06XN
HMM421F10XNR	3/4”	80	220	10	Inorganic Fibre	277	78	113	CHP421F10XN
HMM421F25XNR	3/4”	104	220	25	Inorganic Fibre	277	78	113	CHP421F25XN
HMM422F03XNR1	1”	100	220	3	Inorganic Fibre	390	78	113	CHP422F03XN
HMM422F06XNR1	1”	113	220	6	Inorganic Fibre	390	78	113	CHP422F06XN
HMM422F10XNR1	1”	135	220	10	Inorganic Fibre	390	78	113	CHP422F10XN
HMM422F25XNR1	1”	170	220	25	Inorganic Fibre	390	78	113	CHP422F25XN

HMM / HPM Indicators Visual, Electrical and Visual/Electrical switch, set at 5 or 8 bar

Description	Manufacturer	Part Number
Visual Indicator 5 bar	OMT	DV500
Visual Indicator 8 bar	OMT	DV800
Electrical Indicator 5 bar	OMT	DE500
Electrical Indicator 8 bar	OMT	DE800
Visual and Electrical Indicator 5 bar	OMT	DR500
Visual and Electrical Indicator 8 bar	OMT	DR800

High Pressure Filters

HPM High Pressure Filter

420 bar Max Pressure Flow rates up to 410 l/min

Cast Iron head and Steel bowl Bypass 6 bar

Part Number	bsp	Max Flow l/min	Max Press bar	Filtration Micron	Element Filtration type	Length mm	Bowl Dia mm	Head dia mm	Spare Element Part Number
HPM281F03XNR	1/2”	17	420	3	Inorganic Fibre	189	70	85	CHP281F03XN
HPM281F06XNR	1/2”	20	420	6	Inorganic Fibre	189	70	85	CHP281F06XN
HPM281F10XNR	1/2”	35	420	10	Inorganic Fibre	189	70	85	CHP281F10XN
HPM281F25XNR	1/2”	50	420	25	Inorganic Fibre	189	70	85	CHP281F25XN
HPM282F03XNR1	3/4”	26	420	3	Inorganic Fibre	219	70	85	CHP282F03XN
HPM282F06XNR1	3/4”	40	420	6	Inorganic Fibre	219	70	85	CHP282F06XN
HPM282F10XNR1	3/4”	55	420	10	Inorganic Fibre	219	70	85	CHP282F10XN
HPM282F25XNR1	3/4”	80	420	25	Inorganic Fibre	219	70	85	CHP282F25XN
HPM283F03XNR1	3/4”	38	420	3	Inorganic Fibre	319	70	85	CHP283F03XN
HPM283F06XNR1	3/4”	50	420	6	Inorganic Fibre	319	70	85	CHP283F06XN
HPM283F10XNR1	3/4”	70	420	10	Inorganic Fibre	319	70	85	CHP283F10XN
HPM283F25XNR1	3/4”	95	420	25	Inorganic Fibre	319	70	85	CHP283F25XN
HPM421F03XNR	3/4”	55	420	3	Inorganic Fibre	277	78	110	CHP421F03XN
HPM421F06XNR	3/4”	65	420	6	Inorganic Fibre	277	78	110	CHP421F06XN
HPM421F10XNR	3/4”	80	420	10	Inorganic Fibre	277	78	110	CHP421F10XN
HPM421F25XNR	3/4”	104	420	25	Inorganic Fibre	277	78	110	CHP421F25XN
HPM422F03XNR1	1”	100	420	3	Inorganic Fibre	390	78	110	CHP422F03XN
HPM422F06XNR1	1”	113	420	6	Inorganic Fibre	390	78	110	CHP422F06XN
HPM422F10XNR1	1”	135	420	10	Inorganic Fibre	390	78	110	CHP422F10XN
HPM422F25XNR1	1”	170	420	25	Inorganic Fibre	390	78	110	CHP422F25XN
HPM621F03XNR	1”	110	420	3	Inorganic Fibre	273	110	140	CHP621F03XN
HPM621F06XNR	1”	125	420	6	Inorganic Fibre	273	110	140	CHP621F06XN
HPM621F10XNR	1”	145	420	10	Inorganic Fibre	273	110	140	CHP621F10XN
HPM621F25XNR	1”	190	420	25	Inorganic Fibre	273	110	140	CHP621F25XN
HPM622F03XNR1	1 1/4”	206	420	3	Inorganic Fibre	393	110	140	CHP622F03XN
HPM622F06XNR1	1 1/4”	250	420	6	Inorganic Fibre	393	110	140	CHP622F06XN
HPM622F10XNR1	1 1/4”	300	420	10	Inorganic Fibre	393	110	140	CHP622F10XN
HPM622F25XNR1	1 1/4”	345	420	25	Inorganic Fibre	393	110	140	CHP622F25XN
HPM623F03XNR2	1 1/2”	250	420	3	Inorganic Fibre	533	110	140	CHP623F03XN
HPM623F06XNR2	1 1/2”	290	420	6	Inorganic Fibre	533	110	140	CHP623F06XN
HPM623F10XNR2	1 1/2”	330	420	10	Inorganic Fibre	533	110	140	CHP623F10XN
HPM623F25XNR2	1 1/2”	375	420	25	Inorganic Fibre	533	110	140	CHP623F25XN
HPM624F03XNR2	1 1/2”	285	420	3	Inorganic Fibre	673	110	140	CHP624F03XN
HPM624F06XNR2	1 1/2”	330	420	6	Inorganic Fibre	673	110	140	CHP624F06XN
HPM624F10XNR2	1 1/2”	360	420	10	Inorganic Fibre	673	110	140	CHP624F10XN
HPM624F25XNR2	1 1/2”	410	420	25	Inorganic Fibre	673	110	140	CHP624F25XN

TEL. 0118 978 2555
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Pressure Gauges, Isolators and Test points

Glycerine filled Pressure gauges rear or bottom entry.
Stainless steel case with brass internals, dual scale psi & bar

63 mm dia Range bar	Range psi	Thread Bsp	Part Number Bottom ported	Part Number Rear ported
0-11	0-160	1/4”	H222A248K	H222E248K
0-34	0-500	1/4”	H222A255K	H222E255K
0-70	0-1000	1/4”	H222A262K	H222E262K
0-103	0-1500	1/4”	H222A264K	H222E264K
0-138	0-2000	1/4”	H222A265K	H222E265K
0-172	0-2500	1/4”	H222A267K	H222E267K
0-207	0-3000	1/4”	H222A269K	H222E269K
0-275	0-4000	1/4”	H222A271K	H222E271K
0-345	0-5000	1/4”	H222A273K	H222E273K
0-414	0-6000	1/4”	H222A275K	H222E275K
0-690	0-10000	1/4”	H222A283K	H222E283K
3 HOLE	MOUNTING	FLANGE	ACC09570	ACC09601
PANEL	MOUNTING	BRACKET	—-	ACC09701

100 mm dia Range bar	Range psi	Thread Bsp	Part Number Bottom ported	Part Number Rear ported
0-11	0-160	3/8”	H422A248L	H422E248L
0-34	0-500	3/8”	H422A255L	H422E255L
0-70	0-1000	3/8”	H422A262L	H422E262L
0-103	0-1500	3/8”	H422A264L	H422E264L
0-138	0-2000	3/8”	H422A265L	H422E265L
0-172	0-2500	3/8”	H422A267L	H422E267L
0-207	0-3000	3/8”	H422A269L	H422E269L
0-275	0-4000	3/8”	H422A271L	H422E271L
0-345	0-5000	3/8”	H422A273L	H422E273L
0-414	0-6000	3/8”	H422A275L	H422E275L
0-690	0-10000	3/8”	H422A283K	H422E283L
3 HOLE	MOUNTING	FLANGE	ACC09501	ACC09680
PANEL	MOUNTING	BRACKET	—-	ACC09775

Pressure Gauge Isolating valves, 400 bar max

SOV1400

SOV1490

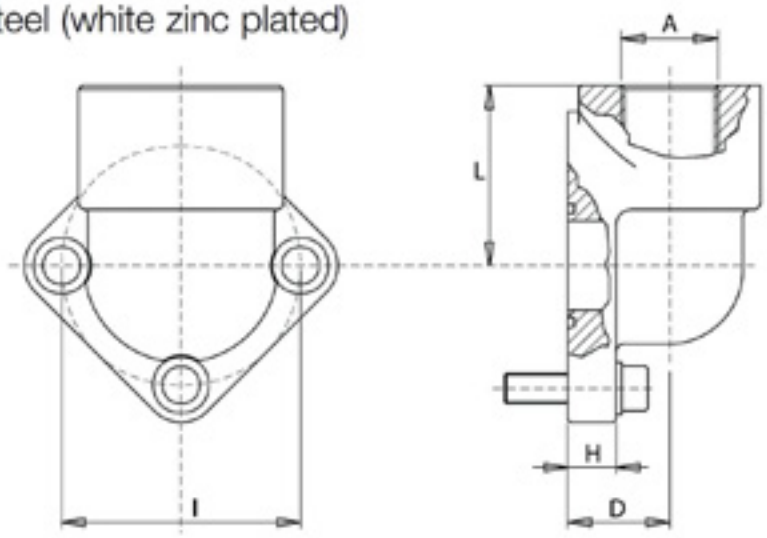
Pressure Test couplings

Part Number	Thread bsp
MPN180	1/8”
MPN140	1/4”
MPN380	3/8”
MPN120	1/2”

WWW.HYCON.CO.UK
SALES@HYCON.CO.UK
TEL. 0118 978 2555

Pump Flanged Couplings
Steel Type RPA

Material: Steel (white zinc plated)



Tipo Type	Gruppo pompa Pump size	A	I	D	H	L	N. fori Fixing	Viti Screws holes	O-Rings
RPA05-038	0.5	3/8"	26	17	10	27	3	M5x20	2056
RPA05-012	0.5	1/2"	26	17	10	27	3	M5x20	2056
RPA1-038	1	3/8"	30	17	10	27	3	M6x20	121
RPA1-012	1	1/2"	30	17	10	27	3	M6x20	121
RPA2-038	2	3/8"	4	21	11	36	3	M8x25	132
RPA2-012	2	1/2"	40	21	11	36	3	M8x25	132
RPA2-034	2	3/4"	40	21	11	36	3	M8x25	132
RPA3-034	3	3/4"	51	27	15	46	3	M10x30	4118
RPA3-100	3	1"	51	27	15	46	3	M10x30	4118
RPA3-034B	3	3/4"	56	27	15	46	3	M10x30	4118
RPA3-100B	3	1"	56	27	15	46	3	M10x30	4118
RPA35-100M10	3.5	1"	62	36	16	56	3	M10x30	4150
RPA35-114M10	3.5	1 1/4"	62	36	16	56	3	M10x30	4150
RPA35-100M12	3.5	1"	62	36	16	56	3	M12x35	4150
RPA35-114M12	3.5	1 1/4"	62	36	16	56	3	M12x35	4150
RPA4-114	4	1 1/4"	72.5	37	17	56	3	M12x35	153
RPA4-112	4	1 1/2"	72.5	37	17	56	3	M12x35	153
RPA6-212	-	2 1/2"	92	52	18	75	3	M12x40	4275

Esempio codice di ordinazione - Ordering example

RPA 2 - 034 - M

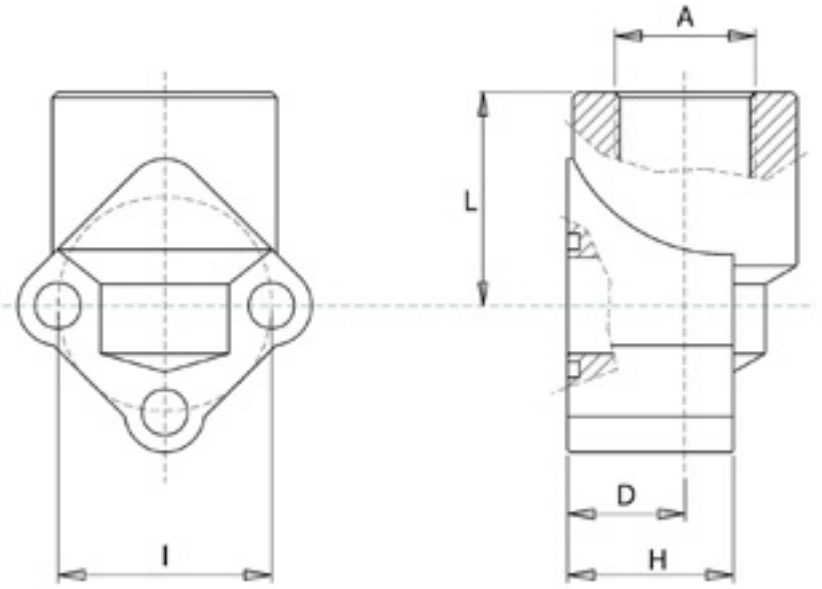
Raccordo
Coupling

Viti metriche, rondelle, O-Rings
Metrical screws, washers, O-Rings
(zincate bianche - white zinc plated)

RPA35 - RPA4 - RPA6
Forniti in ghisa - Made of cast iron

Pump Couplings
Type RIA

Material: Aluminium



Press. max bar	Tipo Type	Gruppo pompa Pump size	A BSP	I	D	H	L	N. fori Fixing holes	Viti Screws	O-Rings
180	RP05-038	0.5	3/8"	26	18	24	30	3	M5x35	2056
180	RP05-012	0.5	1/2"	26	18	24	30	3	M5x35	2056
180	RP1-038	1	3/8"	30	18	26	30	3	M6x35	121
180	RP1-012	1	1/2"	30	18	26	30	3	M6x35	121
180	RP2-012	2	1/2"	40	20	31	40	3	M8x45	130
180	RP2-034	2	3/4"	40	20	31	40	3	M8x45	130
180	RP3-034	3	3/4"	51÷56	26	43	46	3	M10x60	4118
180	RP3-100	3	1"	51÷56	26	43	46	3	M10x60	4118
180	RP35-114	3.5	1 1/4"	62	33.5	17	57	2	M12x35	4143
180	RP4-112	4	1 1/2"	72.5	38	17	64	2	M12x35	4175

Esempio codice di ordinazione - Ordering example

RP 1 - 012 - M

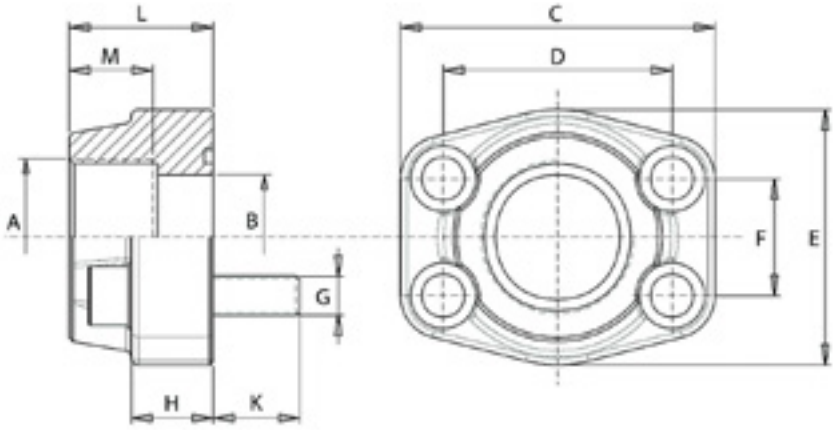
Raccordo
Coupling

Viti metriche, rondelle, O-Rings
Metrical screws, washers, O-Rings
(zincate bianche - white zinc plated)

SAE Flanges BSP Threaded

3000 & 6000 psi

Material: Steel



3000 psi

PRESS. MAX bar	TIPO TYPE	A SAE	B	L	H	M	K	C	D	E	F	G Viti / Screws Metr.	G Viti / Screws UNC	O-Rings
345	F080G038	3/8"	13	36	16	13	14	58	38,10	48	17,48	M8	5/16"	4075
345	F080G012	1/2"	13	36	16	15	14	58	38,10	48	17,48	M8	5/16"	4075
345	F100G034	3/4"	19	36	18	18	16	67	47,63	50	22,23	M10	3/8"	4100
345	F102G100	1"	25	38	18	20	16	72	52,37	54	26,19	M10	3/8"	4131
275	F104G114	1 1/4"	31	41	21	22	18	81	58,72	70	30,18	M10	7/16"	4150
200	F106G112	1 1/2"	38	44	25	24	18	95	69,85	78	35,71	M12	1/2"	4187
200	F108G200	2"	50	45	25	26	18	104	77,77	90	42,88	M12	1/2"	4225
170	F110G212	2 1/2"	63	50	25	30	18	116	88,90	102	50,80	M12	1/2"	4275
135	F112G300	3"	73	50	27	30	25	136	106,38	125	61,93	M16	5/8"	4337
35	F114G312	3 1/2"	89	50	27	30	25	153	120,65	137	69,85	M16	5/8"	4387
35	F116G400	4"	99	50	27	30	25	163	130,18	147	77,77	M16	5/8"	4437
35	F118G500	5"	120	50	28	30	25	185	152,40	181	92,08	M16	5/8"	4537

6000 psi

PRESS. MAX bar	TIPO TYPE	A SAE	B	L	H	M	K	C	D	E	F	G Viti / Screws Metr.	G Viti / Screws UNC	O-Rings
420	F401G038	3/8"	13	36	16	13	14	58	40,49	48	18,24	M8	5/16"	4075
420	F401G012	1/2"	13	36	16	15	14	58	40,49	48	18,24	M8	5/16"	4075
420	F402G034	3/4"	19	36	19	18	16	72	50,80	54	23,80	M10	3/8"	4100
420	F403G100	1"	25	44	24	20	19	81	57,15	70	27,76	M12	7/16"	4131
420	F404G114	1 1/4"	31	44	27	22	22	95	66,68	78	31,75	M14	1/2"	4150
420	F405G112	1 1/2"	38	51	30	24	24	107	79,38	90	36,50	M16	5/8"	4187
420	F406G200	2"	50	70	37	33	32	136	96,82	117	44,45	M20	3/4"	4225
420	F408G212	2 1/2"	63	75	45	35	40	167	123,80	151	58,70	M24	-	4275
420	F410G300	3"	73	90	55	40	55	209	152,40	179	71,40	M30	-	4337

Esempio codice di ordinazione - Ordering example

F404 G114 - M / U

Flangia
Flange

Su richiesta: - On request:

M — Viti metriche, rondelle, O-Rings
Metrical screws, washers, O-Rings

U — Viti UNC, rondelle, O-Rings
UNC screws, washers, O-Rings

(brunite - burnished)

Hydraulic Mini Motors

MAMM MINI MOTORS

High Output Torque compact Motor with Side or Rear ports
Standard 3 bolt or 2 Bolt Flange Mounted
Parallel or Splined shafts, 8.2 up to 50 cc/rev displacements

Type		MAMM 8	MAMM 12.5	MAMM 20	MAMM 32	MAMM 40	MAMM 50
Displacement (cc/rev)		8.2	12.9	19.9	31.6	39.8	50.3
Max. Speed (rpm)	Cont.	1950	1550	1000	630	500	400
	Int.	2450	1940	1250	800	630	500
Max. Torque (Nm)	Cont.	11	16	25	41	42	46
	Int.	15	23	35	57	58	59
	Peak	21	33	51	64	66	80
Max. Output (Kw)	Cont.	1.8	2.4	2.4	2.4	1.8	1.8
	Int.	2.6	3.2	3.2	3.2	3.0	2.1
Max. pressure (bar)	Cont.	100	100	100	100	80	70
	Int.	140	140	140	140	110	90
	Peak	200	200	200	200	140	125
Max. Oil flow (l/min)	Cont.	16	20	20	20	20	20
	Int.	20	25	25	25	25	25
Max. Inlet pressure (bar)	Cont.	140	140	140	140	140	140
	Int.	175	175	175	175	175	175
	Peak	225	225	225	225	225	225
Weight (kg)		1.9	2	2.1	2.2	2.3	2.4

maxma

Model code	Porting	Mounting	Displacement cc/rev	Shaft option
MAMM	Omit for Standard Rear port **S** Side Ports 1/4” bsp	Omit for standard 3 bolt **F** 2 Bolt Flange	**8** 8.2 **12.5** 12.9 **20** 19.9 **32** 31.6 **40** 39.8 **50** 50.3	**C** 16mm Parallel **CO** 5/8” Parallel **S** 16.5mm Spline
Example...				
MAMM	**S**		**12.5**	**C**

MAP MOTORS

Low Speed High Torque Gerotor type Motor, Side or Rear ported
Various Flange and Shaft Options, 36 up to 400 cc/rev displacements
All motors supplied are with a high pressure shaft seal as standard

Type		MAP 36	MAP 50	MAP 80	MAP 100	MAP 125	MAP 160	MAP 200	MAP 250	MAP 315	MAP 400
Displacement (cc/rev)		36	50.8	78.8	98.6	123.5	158.6	197.9	247.5	316.5	396.5
Max. Speed (rpm)	Cont.	1500	1180	760	600	485	380	302	240	190	150
	Int.	1650	1380	940	750	600	475	380	302	235	190
Max. Torque (Nm)	Cont.	55	93	149	190	234	310	359	351	342	348
	Int.	76	120	190	230	290	370	435	468	492	454
	Peak	96	140	219	265	362	426	545	585	684	688
Max. Output (Kw)	Cont.	8	10.2	10.1	10.3	10	10	9.6	7.4	5.6	4.6
	Int.	11.5	12.3	12.3	12.5	12	12	12	12	9	7.8
Max. pressure (bar)	Cont.	125	140	140	140	140	140	135	105	80	65
	Int.	165	175	175	175	175	175	160	140	115	90
	Peak	225	210	210	210	210	210	210	175	160	140
Max. Oil flow (l/min)	Cont.	55	50	60	60	60	60	60	60	60	60
	Int.	60	60	75	75	75	75	75	75	75	75
Max. Inlet pressure (bar)	Cont.	160	160	160	160	160	160	160	160	160	160
	Int.	175	175	175	175	175	175	175	175	175	175
	Peak	210	210	210	210	210	210	210	210	210	210
Weight (kg)		5.4	5.6	5.7	5.9	6	6.2	6.4	6.6	6.9	7.4

maxma

Model code	Mounting Flange	Bearing Options	Port Orientation	Displacement cc/rev	Shaft option	Seal option
MAP	Omit for Standard SAE 'A' 2 bolt **F** Magneto 4 Hole **Q** Square 4 Bolt **W** Wheel Mount	**N** Needle Bearings	Standard Side ports **E** Rear Ports	**36.** 36 cc/rev **50** 50.8 cc/rev **80** 78.8 cc/rev **100** 98.6 cc/rev **125** 123.5 cc/rev **160** 158.6 cc/rev **200** 197.9 cc/rev **250** 247.5 cc/rev **315** 316,5 cc/rev **400** 396.5 cc/rev	C Parallel 25mm **CO** Parallel 1" **S** Spline 1" SAE 6B **T** Tapered 1:10 **C1** Parallel 1 1/4" **C2** Parallel 32mm **TA** Tapered 1:8 SAE **SB** Spline 14T 1 1/4" **SH** Spline 14T 31.75mm	High Pressure shaft seal
Example... **MAP**				**200**	**C**	**D**

Hydraulic Motors

MAR MOTORS

Low Speed High Torque Geroler type Motor, Side ported
Various Flange and Shaft Options, 36 up to 396.5 cc/rev displacements
All motors supplied are with a high pressure shaft seal as standard

Type		MAR 36	MAR 50	MAR 80	MAR 100	MAR 125	MAR 160	MAR 200	MAR 250	MAR 315	MAR 400
Displacement (cc/rev)		36	51.2	80.5	100.8	125.1	159.4	199.6	249.8	315.7	396.5
Max. Speed (rpm)	Cont.	1085	770	745	600	470	370	300	240	190	150
	Int.	1220	970	940	750	600	470	370	300	240	190
Max. Torque (Nm)	Cont.	72	100	196	242	271	389	385	388	385	355
	Int.	83	128	221	281	339	428	460	579	570	598
	Peak	105	168	270	321	368	458	560	655	830	713
Max. Output (Kw)	Cont.	8.5	6.9	12.6	12	12.4	11.4	9	6.4	6	4.7
	Int.	9.8	8.3	15	15	14.5	12.6	11.5	11	9.6	8.7
Max. pressure (bar)	Cont.	140	140	160	160	160	160	135	105	85	65
	Int.	165	175	180	180	180	180	175	160	130	75
	Peak	225	210	210	210	210	210	210	200	175	175
Max. Oil flow (l/min)	Cont.	40	50	60	60	60	60	60	60	60	60
	Int.	45	50	75	75	75	75	75	75	75	75
Max. Inlet pressure (bar)	Cont.	175	175	175	175	175	175	175	175	175	175
	Int.	200	200	200	200	200	200	200	200	200	200
	Peak	225	225	225	225	225	225	225	225	225	225
Weight (kg)		6.5	6.7	6.9	6.9	7.2	7.5	8.1	8.5	9.1	9.5

maxma

Model code	Mounting Flange	Bearing Options	Port Orientation	Displacement cc/rev	Shaft option	Seal option
MAR	Omit for Standard SAE 'A' 2 bolt **F** Magneto 4 hole **Q** Square 4 bolt **W** Wheel Mount	**N** Needle Bearings	Standard Side ports **E** Rear Ports	**36.** 36 cc/rev **50** 51.2 cc/rev **80** 80.5 cc/rev **100** 100.8 cc/rev **125** 125.1 cc/rev **160** 159.4 cc/rev **200** 199.6 cc/rev **250** 249.8 cc/rev **315** 315.7 cc/rev **400** 396.5 cc/rev	**C** Parallel 25mm **CO** Parallel 1" **S** Spline 1" SAE 6B **T** Tapered 1:10 **C1** Parallel 1 1/4" **C2** Parallel 32mm **TA** Tapered 1:8 SAE **SB** Spline 14T 1 1/4" **SH** Spline 14T 31.75mm	High Pressure shaft seal
Example... **MAR**				**160**	**C**	**D**

MARE MOTORS

MARE motors have an advanced Geroler gear set designed with high Speed, flow and pressure distribution, this provides a high stability at low speeds with high volume efficiency. Side ported with a Magneto Oval 4 or 6 bolt Flange or a Wheel Mount flange with various Shaft Options, 118 up to 745 cc/rev displacements

Type		MARE 125	MARE 160	MARE 200	MARE 230	MARE 250	MARE 300	MARE 350	MARE 375	MARE 475	MARE 540	MARE 750
Displacement (cc/rev)		118	156	196	228	257	296	345	371	462	540	745
Max. Speed (rpm)	Cont.	360	375	330	290	290	250	220	200	160	140	100
	Int.	490	470	425	365	350	315	270	240	195	170	120
Max. Torque (Nm)	Cont.	325	450	530	625	700	810	905	990	1085	980	1050
	Int.	380	525	600	710	790	930	1035	1140	1180	1240	1180
	Peak	450	590	750	870	980	1120	1285	1360	1260	1380	1370
Max. Output (Kw)	Cont.	12	15	15.5	16	17.5	18	17.5	16.5	14.5	11.5	8
	Int.	14	17.5	18	19	20	21	20	19	16.5	15	10
Max. pressure (bar)	Cont.	205	205	205	205	205	205	205	205	175	140	105
	Int.	240	240	240	240	240	240	240	240	190	175	120
	Peak	276	276	276	276	276	276	276	276	205	205	140
Max. Oil flow (l/min)	Cont.	45	60	70	70	75	80	80	75	75	75	75
	Int.	60	75	85	85	90	95	95	90	90	90	90
Weight (kg)		10.6	10.9	11.2	11.3	11.4	11.6	12	12.5	13	13.5	15

maxima®

Model code	Displacement cc/rev	Mounting Flange	Shaft option
MARE	**100** 100 cc/rev **125** 118 cc/rev **160** 156 cc/rev **200** 196 cc/rev **230** 228 cc/rev **250** 257 cc/rev **300** 296 cc/rev **350** 345 cc/rev **375** 371 cc/rev **475** 462 cc/rev **540** 540 cc/rev **750** 745 cc/rev	**MD** 4 bolt Oval Magneto **FD** 6 bolt Oval Magneto **WD** Wheel Mount 82.55mm Spigot	**B1** Parallel 32mm **G2** Parallel 1 1/4" (31.75 mm) **SW** Spline 1" SAE 6B **T4** Cone Shaft Tapered 1:8 (31.75mm) **AW** Parallel 25mm **RW** Parallel 1" (25.4mm) **FD1** Spline 1 1/4" 14T
Example... **MARE**		**FD**	**G2**

Hydraulic Motors

MAH MOTORS

MAH motors have an advanced Geroler gear set designed with shaft distribution flow which can automatically compensate in operating with high pressure, providing a reliable and smooth operation, high efficiency and long life. Side ported with a Magneto Oval 4 bolt Flange with various Shaft Options, 124.9 up to 489.2 cc/rev displacements

Type		MAH 125	MAH 160	MAH 200	MAH 250	MAH 315	MAH 400	MAH 500
Displacement (cc/rev)		124.9	157.2	203.2	255.9	316.1	406.4	489.2
Max. Speed (rpm)	Cont.	383	374	366	290	236	183	155
	Int.	459	469	439	348	282	220	166
Max. Torque (Nm)	Cont.	306	383	510	621	740	864	799
	Int.	342	449	579	702	827	988	971
	Peak	380	496	651	790	930	1092	1092
Max. Output (Kw)	Cont.	13	15.3	15.8	15.8	14	12.4	11
	Int.	16.3	18.1	18.3	18.3	15.4	15	13.9
Max. pressure (bar)	Cont.	180	180	175	175	175	155	125
	Int.	200	200	200	200	200	190	160
	Peak	230	230	225	225	225	210	180
Max. Oil flow (l/min)	Cont.	60	75	75	75	75	75	75
	Int.	80	85	90	90	90	90	90
Max. Inlet pressure (bar)	Cont.	200	200	200	200	200	200	200
	Int.	225	225	225	225	225	225	225
	Peak	250	250	250	250	250	250	250
Weight (kg)		10	10	10.5	11	11.5	12.3	13

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Model code	Mounting Flange	Port Orientation	Displacement cc/rev	Shaft option
MAH	Magneto Oval 4 bolt	Standard Side ports	**125** 124.9 cc/rev **160** 157.2 cc/rev **200** 203.2 cc/rev **250** 255.9 cc/rev **315** 316.1 cc/rev **400** 406.4 cc/rev **500** 489.2 cc/rev	**C** Parallel 32mm **CO** Parallel 1 1/4" (31.75mm) **CB** Parallel 35mm **S** Spline 1" SAE 6B **T** Tapered 1:10 **TA** Tapered 1:8 SAE J 501 **TB** Tapered 1:10 **SB** Spline 14T 1 1/4" **SH** Spline 14T 1 1/4" DP12/24
Example...				
MAH			**160**	**C**

MAS MOTORS

High Specification Motors Side or Rear ported
Various Flange and Shaft Options, 80.8 up to 397 cc/rev displacements

Type		MAS 80	MAS 100	MAS 125	MAS 160	MAS 200	MAS 250	MAS 315	MAS 400
Displacement (cc/rev)		80.8	99.8	125.2	159.5	200	252.3	315.1	397
Max. Speed (rpm)	Cont.	805	746	598	465	373	298	236	187
	Int.	1000	900	718	560	447	360	290	230
Max. Torque (Nm)	Cont.	198	244	307	340	395	450	541	580
	Int.	237	293	368	469	490	535	630	690
	Peak	260	322	405	485	648	682	840	850
Max. Output (Kw)	Cont.	16.4	19.4	20	12	14	13.6	11.5	10
	Int.	22	26	24	21.8	21	21.2	13.5	13
Max. pressure (bar)	Cont.	175	175	175	160	150	140	120	100
	Int.	210	210	210	210	180	175	140	120
	Peak	225	225	225	225	225	200	185	140
Max. Oil flow (l/min)	Cont.	65	75	75	75	75	75	75	75
	Int.	80	90	90	90	90	90	90	90
Max. Inlet pressure (bar)	Cont.	210	210	210	210	210	210	210	210
	Int.	250	250	250	250	250	250	250	250
	Peak	300	300	300	300	300	300	300	300
Weight (kg)		10	10.3	10.5	11	11.4	11.9	12.5	13.5

maxima

Model code	Mounting Flange	Port Orientation	Displacement cc/rev	Shaft option
MAS	Omit for Standard SAE 'A' 4 bolt **A** SAE 'A', 2 bolt **F** Oval Magneto, 4 hole **Q** Square, 4 bolt **W** Wheel mount **S** Short mount motor	Omit for Std. Side ports **E** Rear Ports	**80** 80.8 cc/rev **100** 99.8 cc/rev **125** 125.2 cc/rev **160** 159.5 cc/rev **200** 200 cc/rev **250** 252.3 cc/rev **315** 315.1 cc/rev **400** 397 cc/rev	**C** Parallel 32mm **CO** Parallel 1 1/4" **S** Spline 1" SAE 6B **TB** Tapered 1:10 **C1** Parallel 25mm **C2** Parallel 1" **TA** Tapered 1:8 SAE **SB** Spline 1 1/4" 14T **SH** Spline 31.75mm 14T **SL** PTO Spline
Example...				
MAS			**200**	**C**

Hydraulic Motors

MAT MOTORS

High Specification High Torque Motor
Various Flange and Shaft Options, 161.2 up to 801 cc/rev displacements

Type		MAT 160	MAT 200	MAT 250	MAT 315	MAT 400	MAT 500	MAT 630	MAT 800
Displacement (cc/rev)		161.20	201.5	250.4	319.5	401.8	523.5	629	801
Max. Speed (rpm)	Cont.	615	615	495	375	300	235	196	154
	Int.	770	700	600	455	360	285	233	185
Max. Torque (Nm)	Cont.	470	580	730	948	1078	1220	1320	1462
	Int.	600	710	880	1138	1259	1370	1500	1520
	Peak	670	830	1020	1330	1440	1599	1622	1664
Max. Output (Kw)	Cont.	27	34	33.5	33.4	30	26.4	18.3	15.3
	Int.	32	40	40	40	35	30	25.5	22.3
Max. pressure (bar)	Cont.	200	200	200	200	180	160	140	125
	Int.	240	240	240	240	210	180	160	130
	Peak	280	280	280	280	240	210	190	160
Max. Oil flow (l/min)	Cont.	100	125	125	125	125	125	125	125
	Int.	125	150	150	150	150	150	150	150
Max. Inlet pressure (bar)	Cont.	210	210	210	210	210	210	210	210
	Int.	250	250	250	250	250	250	250	250
	Peak	300	300	300	300	300	300	300	300
Weight (kg)		20	21	21	21.5	22	23	24	25

Model code	Mounting Flange	Port Orientation	Displacement cc/rev	Shaft option
MAT	Omit for Standard Square 4 bolt **C** SAE 'C', 2 bolt **W** Wheel mount **S** Short mount motor	Omit for Std. Side ports **E** Rear Ports	**160** 161.2 cc/rev **200** 201.5 cc/rev **250** 250.4 cc/rev **315** 319.5 cc/rev **400** 401.8 cc/rev **500** 523.5 cc/rev **630** 629 cc/rev **800** 801 cc/rev	**C** Parallel 40mm **CO** Parallel 1 1/2" **K** Tapered 1:10 **SB** Spline 31.75mm 14T **SH** Spline 1 1/2"17T **SL** PTO Spline
Example... **MAT**			**200**	**C**

MAV MOTORS

High Specification High Torque Motor, Side Porting
Various Flange and Shaft Options, 333 up to 801 cc/rev displacements

Type		MAV 315	MAV 400	MAV 500	MAV 630	MAV 800
Displacement (cc/rev)		333	419	518	665	801
Max. Speed (rpm)	Cont.	510	490	395	315	240
	Int.	630	590	470	375	300
Max. Torque (Nm)	Cont.	927	1223	1450	1638	1820
	Int.	1103	1441	1786	2005	2112
	Peak	1350	1705	2123	2338	2475
Max. Output (Kw)	Cont.	43.2	45.3	48	38.2	35.2
	Int.	52	52	52	46	40
Max. pressure (bar)	Cont.	200	200	200	180	160
	Int.	240	240	240	210	180
	Peak	280	280	280	240	210
Max. Oil flow (l/min)	Cont.	150	170	200	200	200
	Int.	210	225	225	225	225
Max. Inlet pressure (bar)	Cont.	210	210	210	210	210
	Int.	250	250	250	250	250
	Peak	300	300	300	300	300

maxma

Model code	Mounting Flange	Displacement cc/rev	Shaft option
MAV	Omit for Standard Square 4 bolt **W** Wheel mount	**315** 333 cc/rev **400** 419 cc/rev **500** 518 cc/rev **630** 665 cc/rev **800** 801 cc/rev	**C** Parallel 50mm **CO** Parallel 2 1/4” **K** Tapered 1:10 **SH** Spline 2 1/4” 17T
Example...			
MAV		**315**	**C**

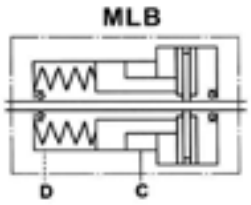
Motor Brakes

HYDRAULIC DISC BRAKES MLB

MLB Brakes are a wet disc hydraulic brakes, spring loaded brake function and hydraulic pressure is required to release the brake. Suitable for MAP/MAR and MAS type Motors.

Model code	Min. Static Torque Nm	Min. Opening Pressure bar	Max. Opening Pressure bar	Min Oil Volume for Brake Release cm^3	Oil Volume cm^3	Max. Pressure in drain bar	Weight Kg
MLB43	410-450	17-23	300	7-8	50-120	0.5	9

Part Number	Input Shaft	Output Shaft
MLBC-43C	25mm Parallel	25mm Parallel
MLBCO-43CO	1" (25.4mm) Parallel	1" (25.4mm) Parallel
MLBS-43S	1" 6B Spline	1" 6B Spline
MLBC2-43C2	32mm Parallel	32mm Parallel
MLBC12-43C1	1 1/4" (31.75mm) Parallel	1 1/4" (31.75mm) Parallel



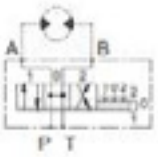
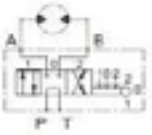
Valves available with brake Release..

Brake unclamping valve... page 7
Pressure Relief valves... page 5
Overcentre valves... page 29

MOTOR MOUNTING DIRECTIONAL CONTROL VALVES

For Hydraulic Motor types OMP/OMR (MAP/MAR)

Available in two different spool configerations with an optional Pressure Relief valve

Part Number	Pressure Relief Valve	Spool Type	Max Flow l/min	Max Pressure bar	Port Size bsp
BDR 1201	---		60	210	1/2"
BDR 1204 25	30-250 bar		60	210	1/2"
BDR 1202	---		60	210	1/2"
BDR 1205 25	30-250 bar		60	210	1/2"

Steel Sleeves For Hydraulic Motor Shafts

Part Number	Motor Shaft	Outside diameter mm	Length mm
34100	25mm Parallel	40	43
34101	25mm Parallel	40	50
34104	32mm Parallel	50	50
34105	1" SAE 6 B Spline	40	45
34106	1" SAE 6 B Spline	40	37

Petrone Bi-directional Group 2 Gear Motors

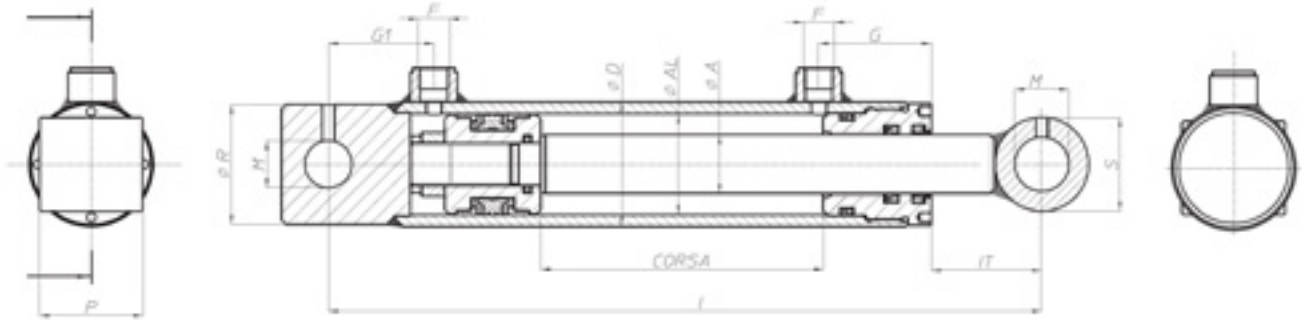
High quality and efficiency, low noise genration Gear Motors from 4 cc/rev up to 26 cc/rev
High Pressure Capability with many different options of Mounting flange and shaft
Bi-directional Motors come with a drain port on the rear cover
High Temperature seal kit is available

Part Number	cc/rev	Max continuous Pressure bar @ 1500 rpm	Max peak Pressure bar @ 1500 rpm	Min speed rpm	Max speed rpm	Suction Port bsp	Pressure port bsp
PNM4	4	280	310	600	4000	1/2”	1/2”
PNM6	6	270	310	600	3500	1/2”	1/2”
PNM8	8	270	310	600	3500	1/2”	1/2”
PNM11	11	270	310	600	3500	3/4”	1/2”
PNM14	14	260	300	500	3000	3/4”	1/2”
PNM16	16	250	290	500	3000	3/4”	1/2”
PNM20	20	230	250	500	3000	3/4”	1/2”
PNM22	22.5	210	230	400	3000	3/4”	1/2”
PNM26	26	200	230	400	3000	3/4”	1/2”

Group 2	Displacemnet	Bi-Directional	Shaft type	Mounting Flange	Ports
PNM2	** cc/rev	B	CO01 (1:8 Taper) CO02 (1:5 Taper) CI01 (15mm Parallel 4mm key width) CI03 (16mm Parallel 4mm key width) SC01 (DIN5482 13T Spline) SC02 (SAE 9T Spline) SC03 (SAE A 11T Spline)	01.. 4 Bolt Standard European 02.. SAE ‘B’ 2 Bolt 03.. 4 Bolt Bosch	A.. Threaded Bsp B.. Flange Ports
PNM2	**11**	**B**	**SC02**	**02**	**A**

Double Acting Cylinders

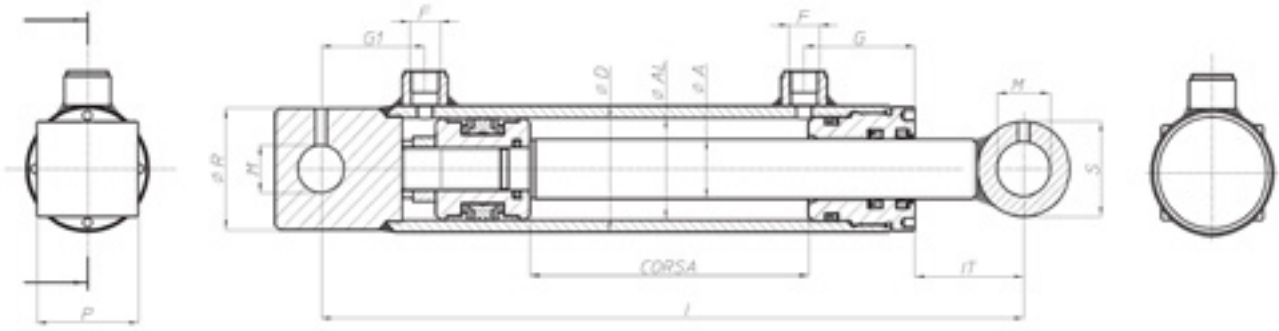
ROD/BORE SIZES 16/25, 20/32, 25/40, & 30/50



Part Number	D	AL Bore	A Rod	Stroke mm	I	G	G1	IT	M	S	P	R	F bsp	KG
DA25160050	35	25	16	50	160	33	22	31	12.1	25	25	35	1/4”	1.00
DA25160100				100	210									1.20
DA25160150				150	260									1.40
DA25160200				200	310									1.70
DA32200050	42	32	20	50	205	33	35	51	16.2	30	35	40	1/4”	1.70
DA32200100				100	255									2.10
DA32200150				150	305									2.40
DA32200200				200	355									2.80
DA32200250				250	405									3.10
DA32200300				300	455									3.50
DA32200400				400	555									4.20
DA32200500				500	655									4.80
DA32200600				600	755									5.60
DA32200700				700	855									6.30
DA40250100	50	40	25	100	270	40	38	65	20.25	35	40	50	3/8”	3.00
DA40250150				150	320									3.40
DA40250200				200	370									3.90
DA40250250				250	420									4.40
DA40250300				300	470									4.80
DA40250400				400	570									5.80
DA40250500				500	670									6.70
DA40250600				600	770									7.60
DA40250700				700	870									8.60
DA40250800				800	970									9.50
DA40251000				1000	1170									11.30
DA50300100	60	50	30	100	300	43	42	85	25.25	40	45	60	3/8”	4.40
DA50300150				150	350									5.00
DA50300200				200	400									5.60
DA50300250				250	450									6.20
DA50300300				300	500									6.90
DA50300400				400	600									8.10
DA50300500				500	700									9.30
DA50300600				600	800									10.50
DA50300700				700	900									11.80
DA50300800				800	1000									13.00
DA50300900				900	1100									14.20
DA50301000				1000	1200									15.50

Double Acting Cylinders

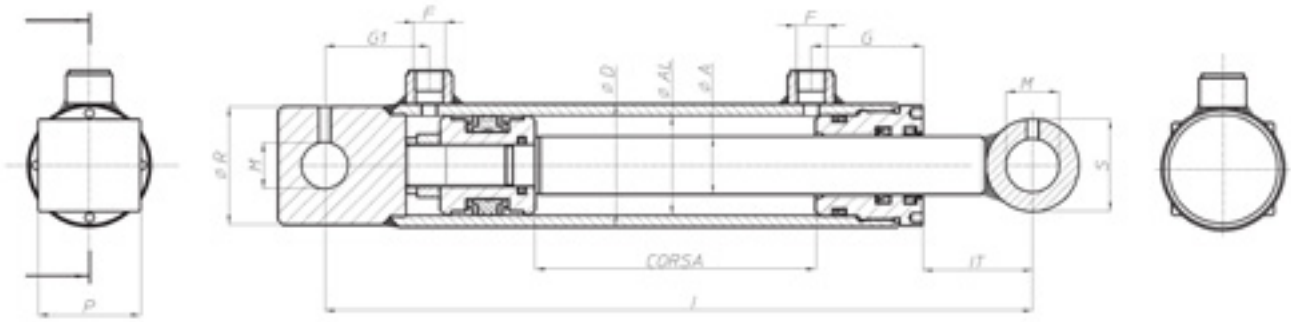
ROD/BORE SIZES 30/60, 35/60, & 40/70



Part Number	D	AL Bore	A Rod	Stroke mm	I	G	G1	IT	M	S	P	R	F bsp	KG
DA60300100				100	300									5.60
DA60300150				150	350									6.30
DA60300200				200	400									7.00
DA60300250				250	450									7.70
DA60300300				300	500									8.30
DA60300350	70	60	30	350	550	50	36	83	25.25	40	45	70	3/8”	9.00
DA60300400				400	600									9.70
DA60300450				450	650									10.40
DA60300500				500	700									11.00
DA60300600				600	800									12.40
DA60300700				700	900									13.70
DA60350100				100	300									5.90
DA60350150				150	350									6.65
DA60350200				200	400									7.50
DA60350250				250	450									8.20
DA60350300				300	500									9.55
DA60350350				350	550									10.10
DA60350400	70	60	35	400	600	50	36	83	25.25	40	45	70	3/8”	11.10
DA60350500				500	700									12.65
DA60350600				600	800									14.20
DA60350700				700	900									15.75
DA60350800				800	1000									17.50
DA60350900				900	1100									19.00
DA60351000				1000	1200									20.50
DA70400200				200	410									10.45
DA70400250				250	460									11.37
DA70400300				300	510									12.31
DA70400350				350	560									13.30
DA70400400				400	610									14.22
DA70400450	80	70	40	450	660	50	46	82	30.25	50	55	80	3/8”	15.20
DA70400500				500	710									16.11
DA70400600				600	810									18.12
DA70400700				700	910									19.94
DA70400800				800	1010									21.50
DA70400900				900	1110									23.50
DA70401000				1000	1210									

Double Acting Cylinders

ROD/BORE SIZES 40/80 & 50/100



Part Number	D	AL Bore	A Rod	Stroke mm	I	G	G1	IT	M	S	P	R	F bsp	KG
DA80400200	92	80	40	200	410	60	42	70	30.25	50	55	90	3/8”	13.26
DA80400250				250	460									14.46
DA80400300				300	510									15.54
DA80400350				350	560									17.62
DA80400400				400	610									18.00
DA80400500				500	710									20.00
DA80400600				600	810									22.00
DA80400700				700	910									24.50
DA80400800				800	1010									26.50
DA80400900				900	1110									29.00
DA804001000				1000	1210									31.00
DA100500200	115	100	50	200	425	66	45	75	30.25	60	70	115	1/2”	26.00
DA100500300				300	525									30.00
DA100500400				400	625									34.00
DA100500500				500	725									38.00
DA100500700				700	925									41.10
DA100500900				900	1125									45.00
DA1005001000				1000	1225									52.00

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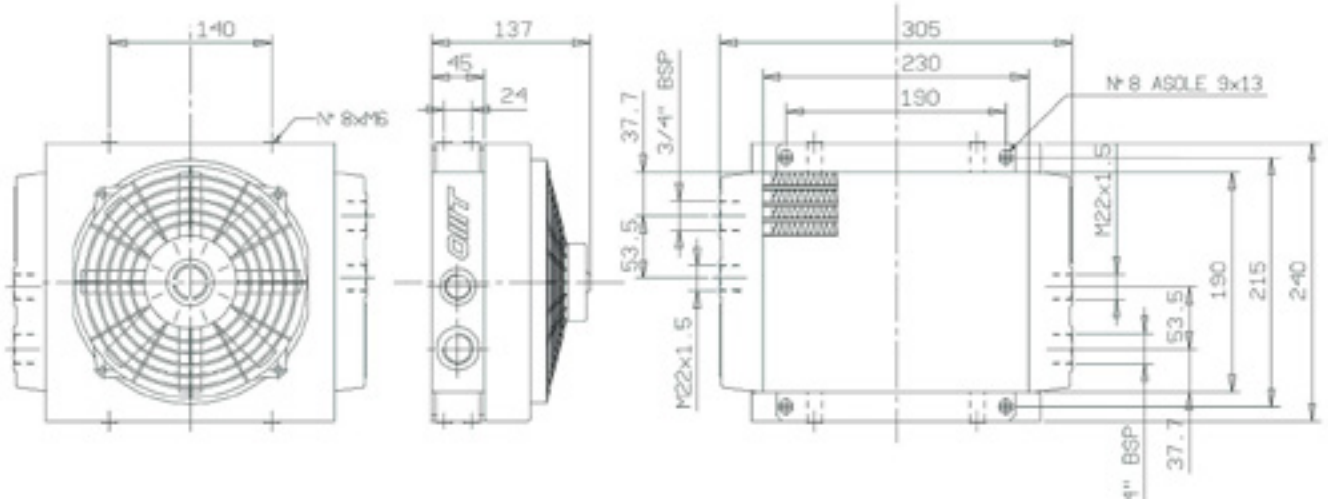
Heat Exchangers ST

Air and Oil Heat Exchangers, (Air Blast Coolers) are designed to be used on the return line of the Hydraulic System.
The Aluminium cooler element provides a high conductivity and thermic exchange.
Nominal Pressure 16 bar, Test Pressure 25 bar.

ST50 — Suggested Oil Flow 10-80 l/min

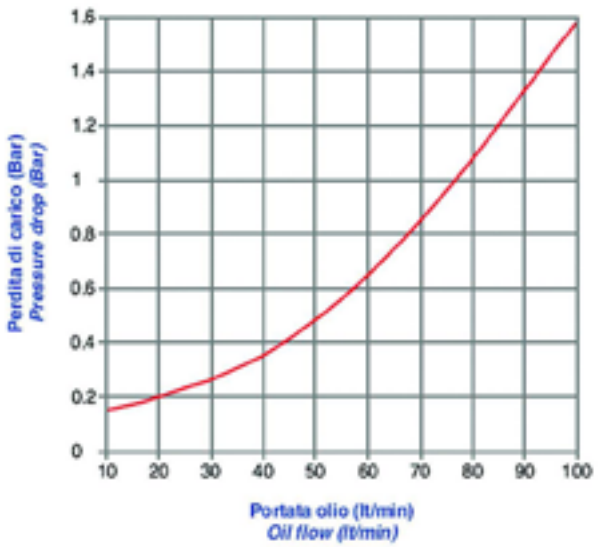
Type	RPM	Power Kw	Fan dia mm	dB (A)	Q air (m3/h)	Capacity (Litre)	Weight (kg)	IP Rating
12 DC	3000	0.1	190	68	1300	0.48	6.5	67
24 DC	3000	0.1	190	68	1300	0.48	6.5	67



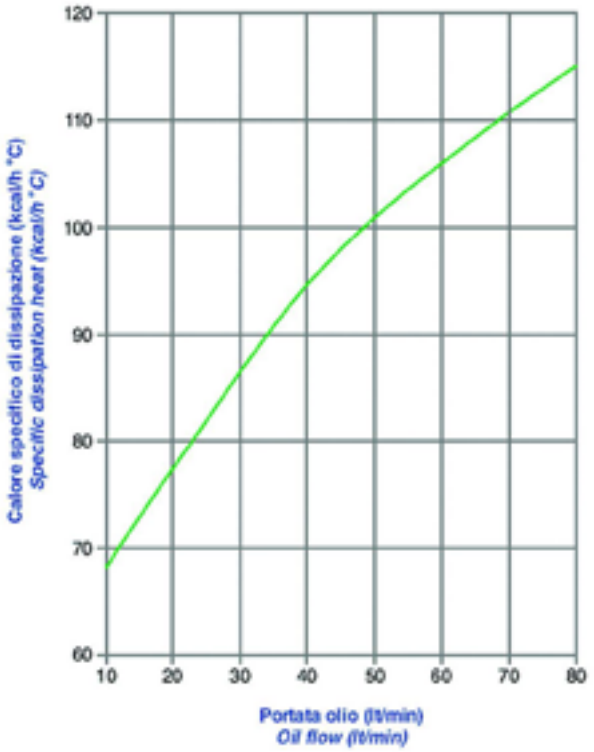
CORRECTION FACTOR

CST	10	15	20	32	40	50	60	80	100	200
F	0.51	0.66	0.76	1	1.22	1.4	1.6	1.9	2.1	3.4

DIAGRAMMA PERDITE DI CARICO (32 cst)
PRESSURE DROP DIAGRAM (32 cst)



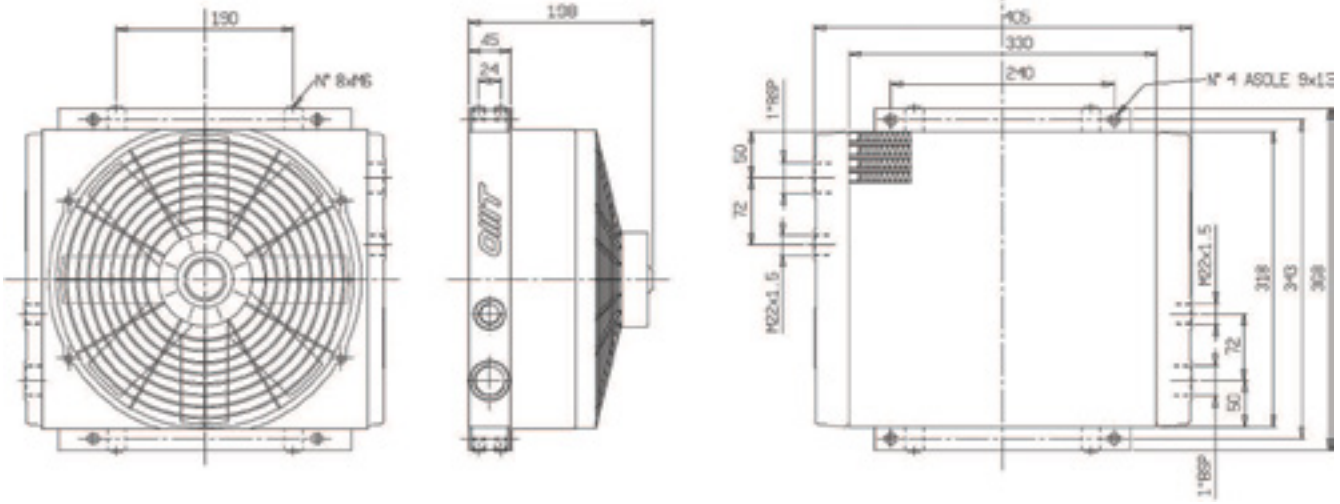
PERFORMANCE DIAGRAM



Heat Exchangers ST

ST60 — Suggested Oil Flow 20-130 l/min

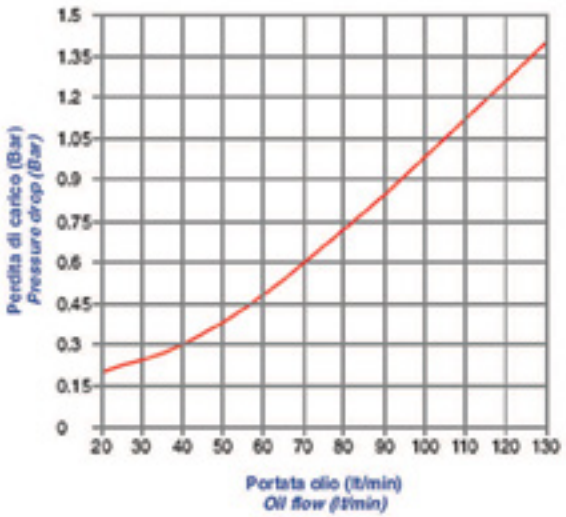
Type	RPM	Power Kw	Fan dia mm	dB (A)	Q air (m3/h)	Capacity (Litre)	Weight (kg)	IP Rating
12 DC	3000	0.175	305	79	2100	1.5	7.5	67
24 DC	3000	0.175	305	82	2200	1.5	7.5	67



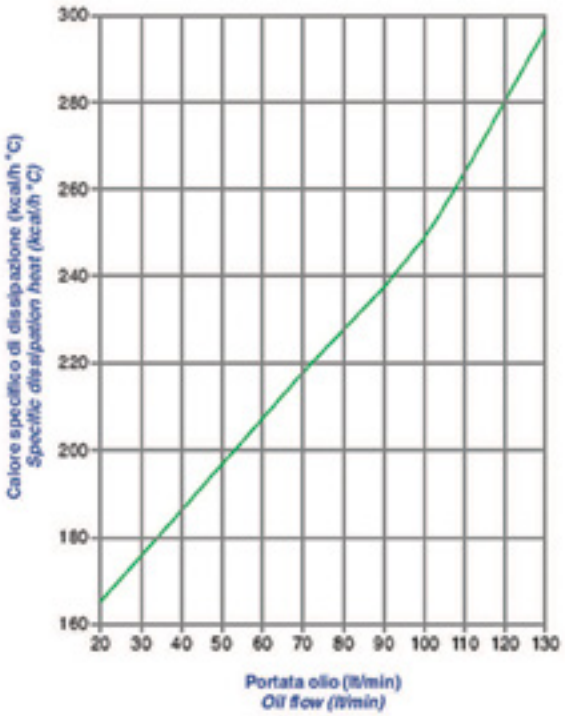
CORRECTION FACTOR

CST	10	15	20	32	40	50	60	80	100	200
F	0.51	0.66	0.76	1	1.22	1.4	1.6	1.9	2.1	3.4

DIAGRAMMA PERDITE DI CARICO (32 cst)
PRESSURE DROP DIAGRAM (32 cst)



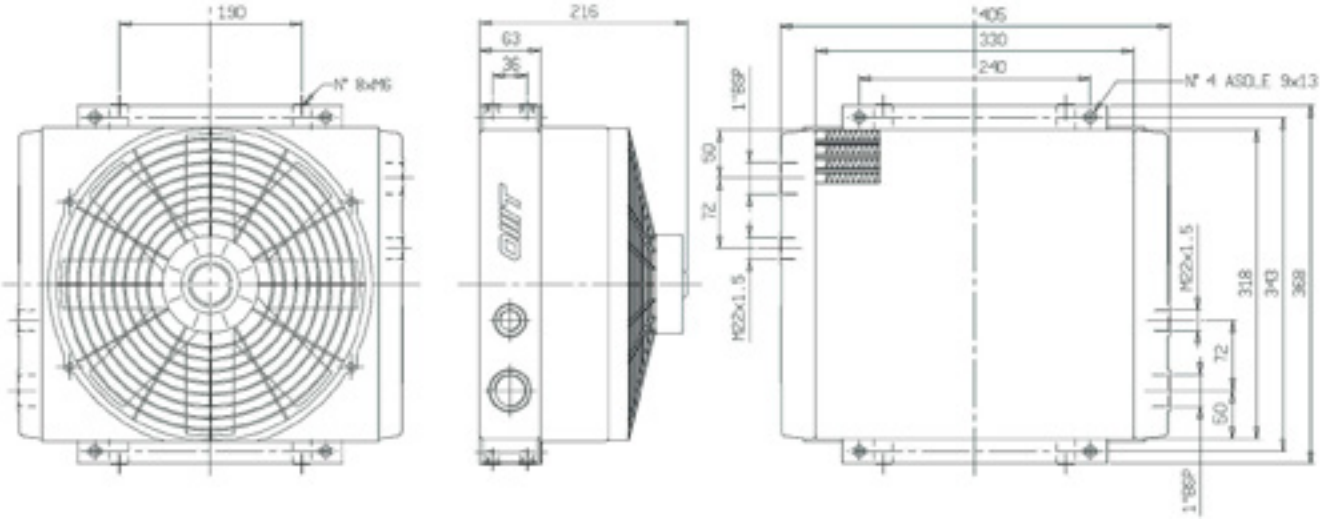
PERFORMANCE DIAGRAM



Heat Exchangers ST

ST100 — Suggested Oil Flow 30-140 l/min

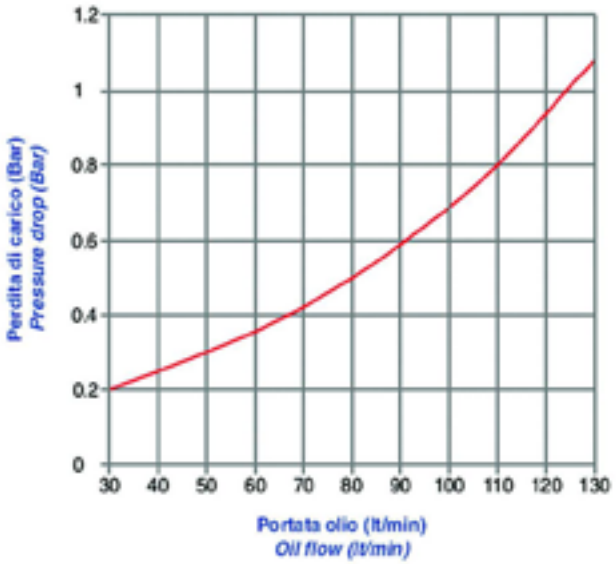
Type	RPM	Power Kw	Fan dia mm	dB (A)	Q air (m3/h)	Capacity (Litre)	Weight (kg)	IP Rating
12 DC	3000	0.175	305	79	2100	1.5	8.5	67
24 DC	3000	0.175	305	82	2200	1.5	8.5	67



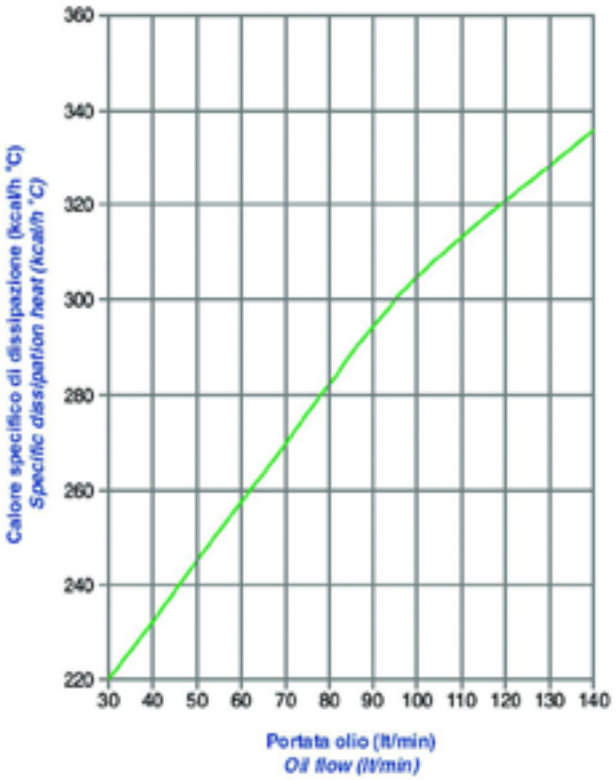
CORRECTION FACTOR

CST	10	15	20	32	40	50	60	80	100	200
F	0.51	0.66	0.76	1	1.22	1.4	1.6	1.9	2.1	3.4

DIAGRAMMA PERDITE DI CARICO (32 cst)
PRESSURE DROP DIAGRAM (32 cst)



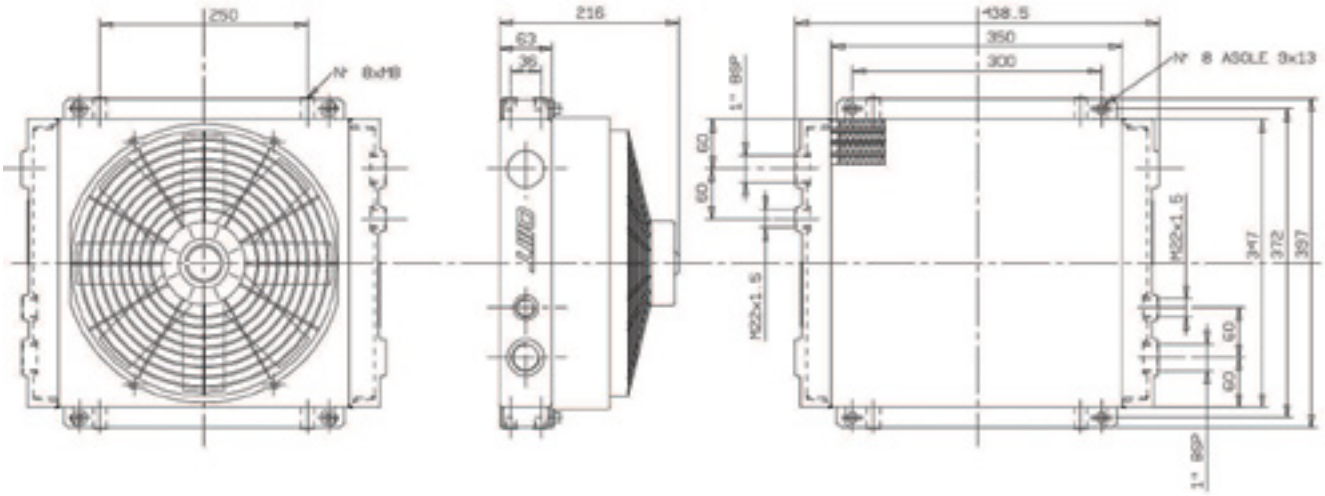
PERFORMANCE DIAGRAM



Heat Exchangers ST

ST150 — Suggested Oil Flow 35-140 l/min

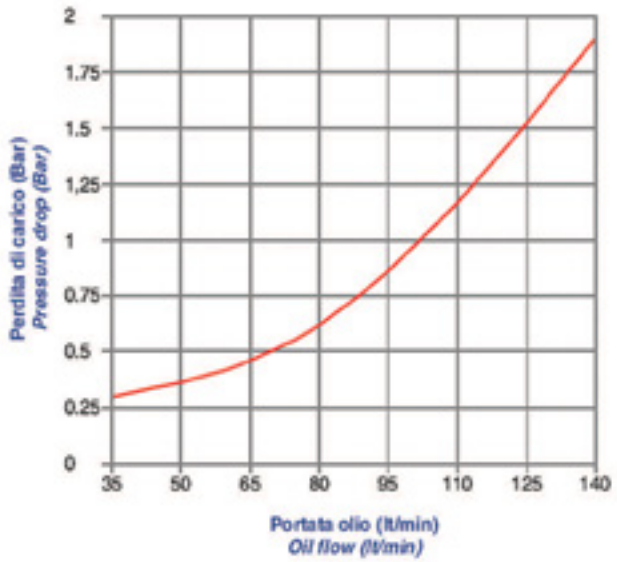
Type	RPM	Power Kw	Fan dia mm	dB (A)	Q air (m3/h)	Capacity (Litre)	Weight (kg)	IP Rating
12 DC	3000	0.175	305	79	2100	1.5	14	67
24 DC	2500	0.175	305	82	2200	1.5	14	67



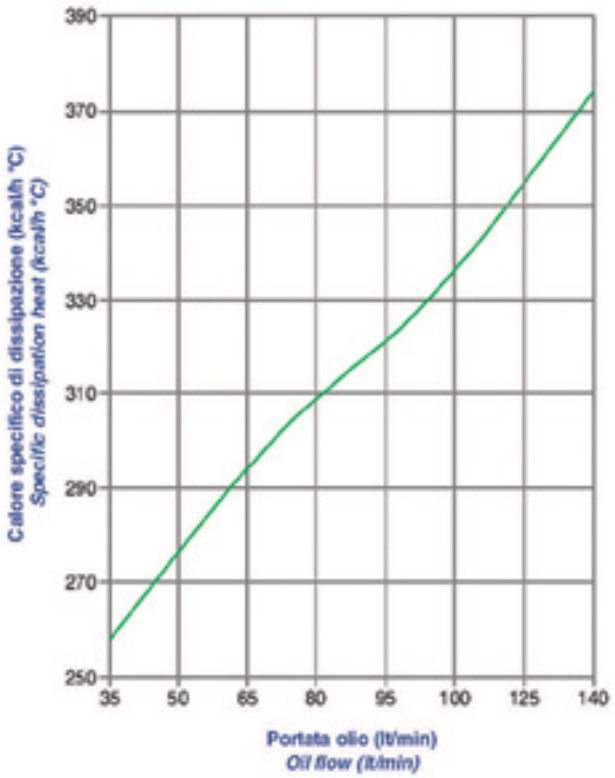
CORRECTION FACTOR

CST	10	15	20	32	40	50	60	80	100	200
F	0.51	0.66	0.76	1	1.22	1.4	1.6	1.9	2.1	3.4

DIAGRAMMA PERDITE DI CARICO (32 cst)
PRESSURE DROP DIAGRAM (32 cst)



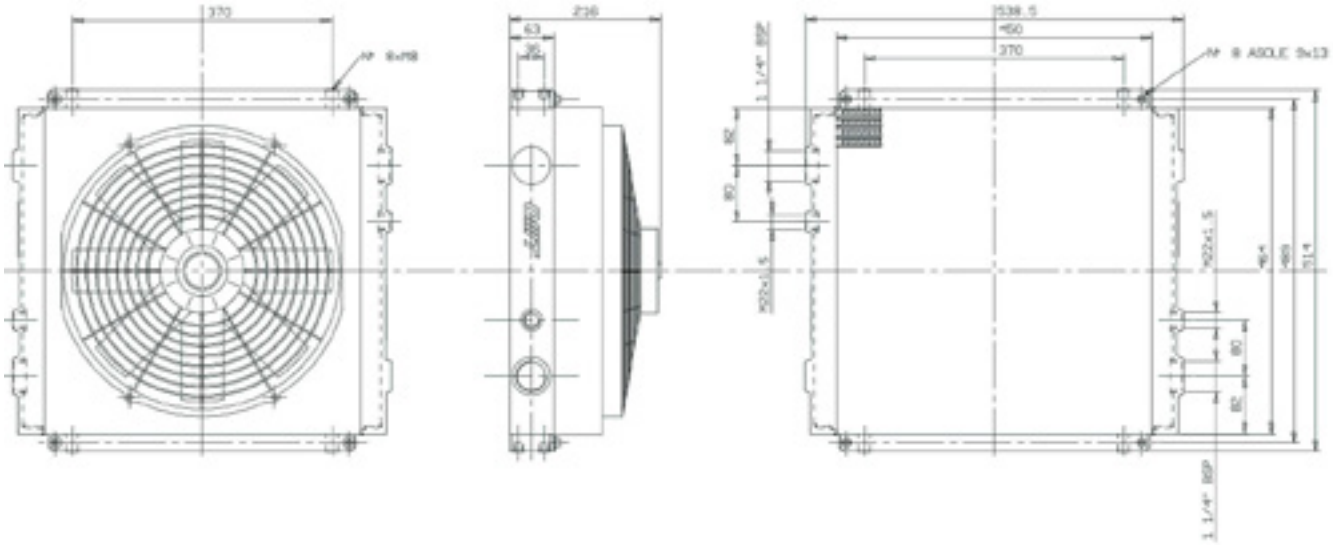
PERFORMANCE DIAGRAM



Heat Exchangers ST

ST180 — Suggested Oil Flow 80-180 l/min

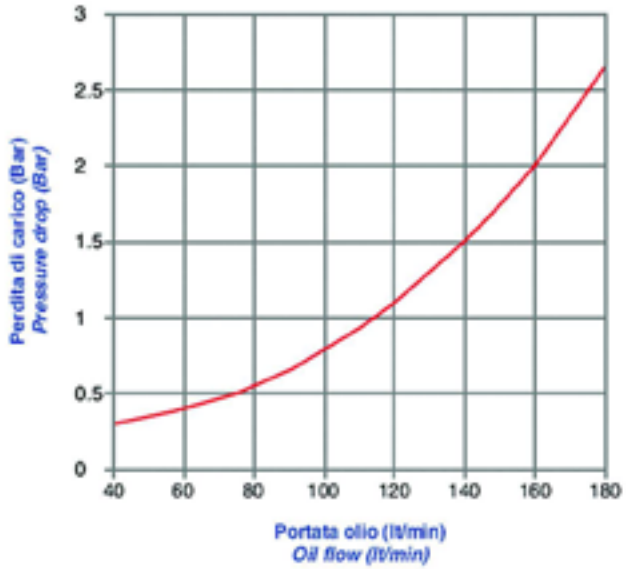
Type	RPM	Power Kw	Fan dia mm	dB (A)	Q air (m3/h)	Capacity (Litre)	Weight (kg)	IP Rating
12 DC	2500	0.2	385	75	3200	2.6	20	65
24 DC	2500	0.2	385	75	3200	2.6	20	65



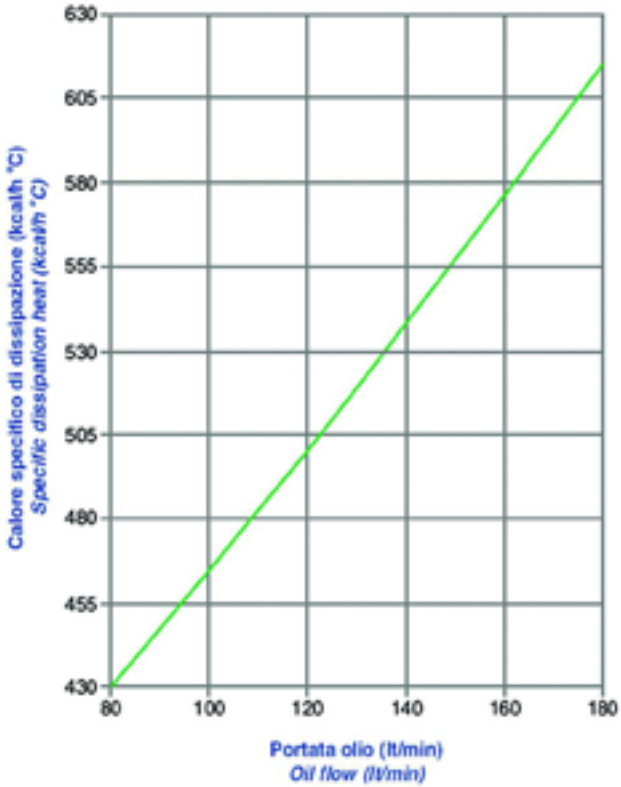
CORRECTION FACTOR

CST	10	15	20	32	40	50	60	80	100	200
F	0.51	0.66	0.76	1	1.22	1.4	1.6	1.9	2.1	3.4

DIAGRAMMA PERDITE DI CARICO (32 cst)
PRESSURE DROP DIAGRAM (32 cst)



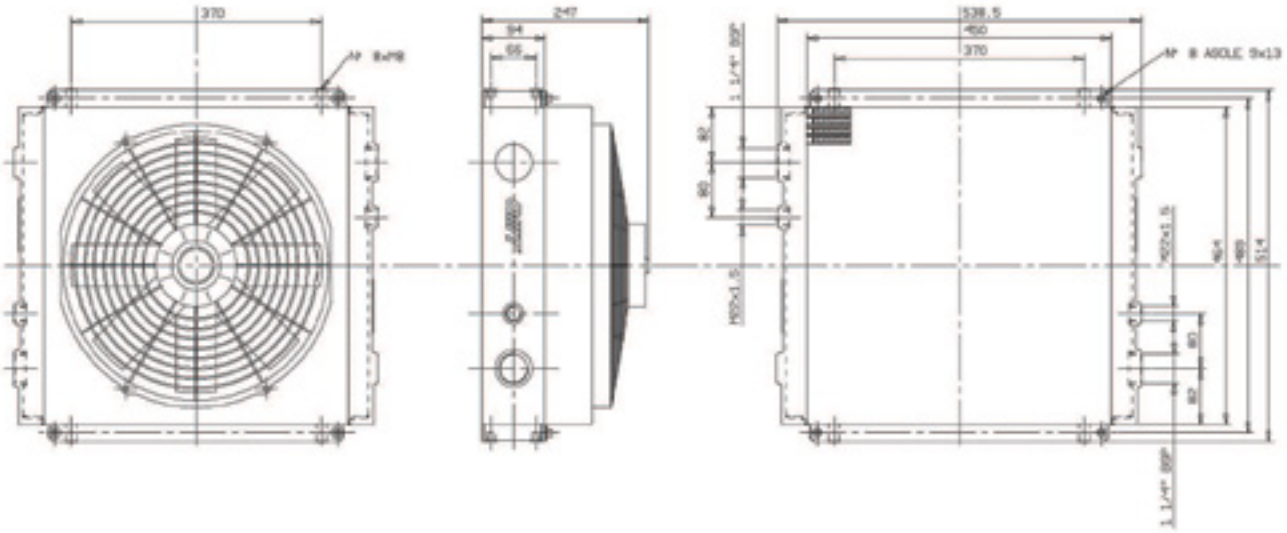
PERFORMANCE DIAGRAM



Heat Exchangers ST

ST210 — Suggested Oil Flow 80-260 l/min

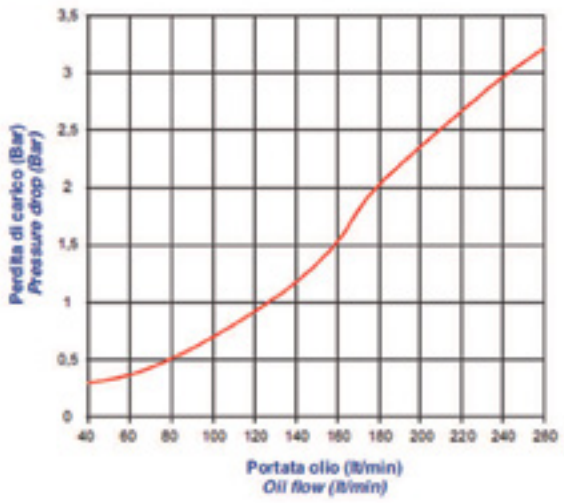
Type	RPM	Power Kw	Fan dia mm	dB (A)	Q air (m3/h)	Capacity (Ltr)	Weight (kg)	IP Rating
12 DC	2500	0.2	385	75	3200	2.6	26	65
24 DC	2500	0.2	385	75	3200	2.6	26	65



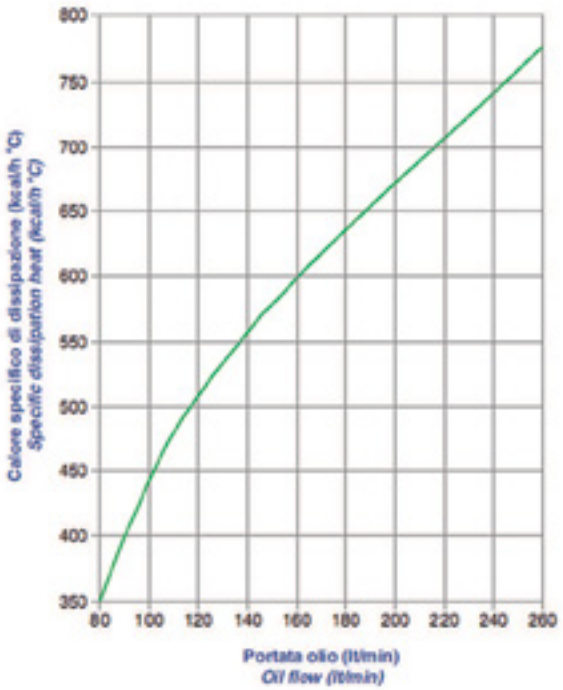
CORRECTION FACTOR

CST	10	15	20	32	40	50	60	80	100	200
F	0.51	0.66	0.76	1	1.22	1.4	1.6	1.9	2.1	3.4

DIAGRAMMA PERDITE DI CARICO (32 cst)
PRESSURE DROP DIAGRAM (32 cst)



PERFORMANCE DIAGRAM

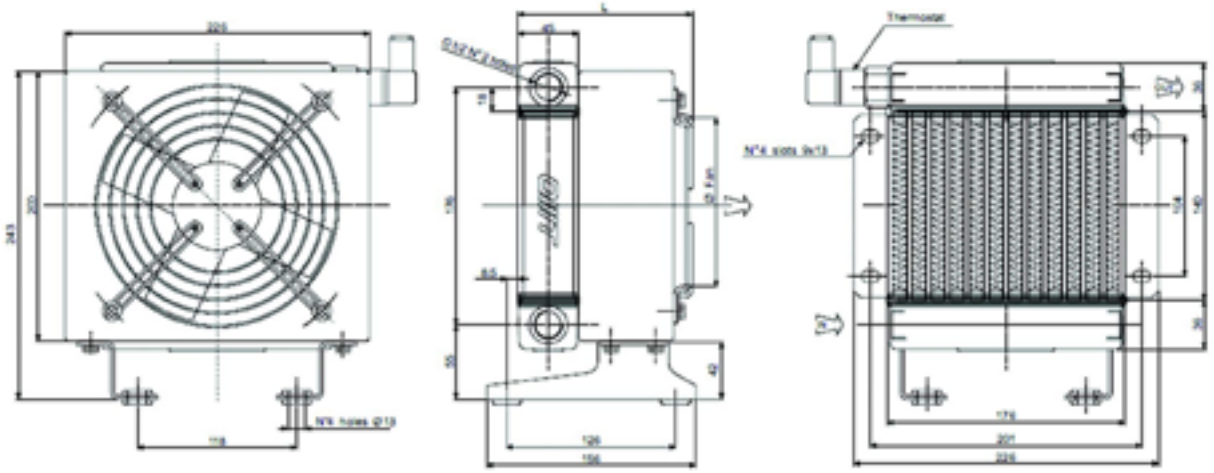


Heat Exchangers SS

SS10 — Suggested Oil Flow 5-40 l/min

Tipologia Type	Frequenza Frequency Hz	Tensione Voltage V	N° Giri/min RPM	Potenza Power kW	Diam. Ventola Ø FAN (mm)	dB (A)	L (mm)	Q air (m³/h)	Cap. (lt)	Peso Weight (kg)	IP
01	50/60	230	2650/3000	0.050/0.046	170	63	125	500	0.28	6	44
03	50/60	230/400	2750/3100	0.045/0.043	170	63	125	500	0.28	6	44
12	DC	12	4000	0.080	167	64	158	550	0.28	5	65
24	DC	24	4100	0.080	167	64	158	550	0.28	5	65

Portata olio consigliata da 5 a 40 (lt/min)
Suggested oil flow from 5 to 40 (lt/min)



Coefficiente di correzione
Correction factor

CST	10	15	20	32	40	50	60	80	100	200
F	0.51	0.66	0.76	1	1.22	1.4	1.6	1.9	2.1	3.4

Diagramma perdite di carico (32 cst)
Pressure drop diagram (32 cst)

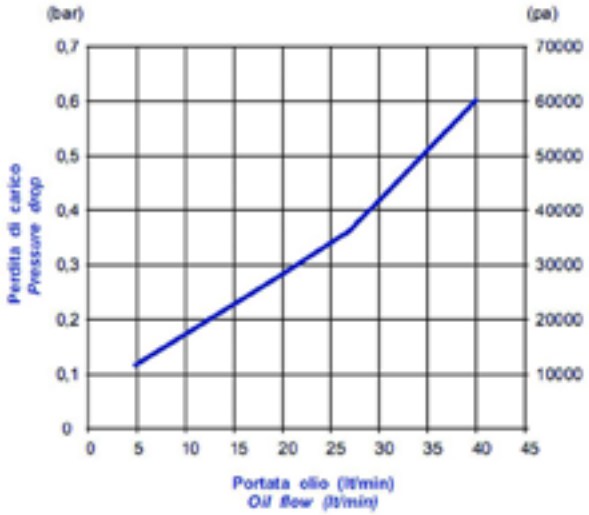
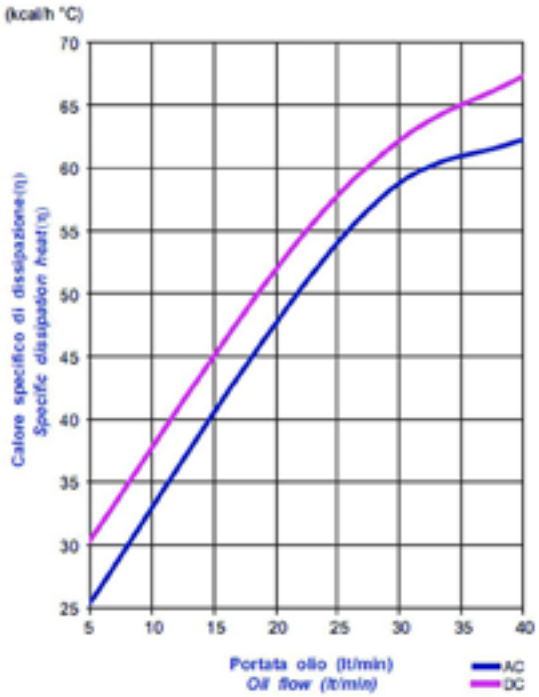


Diagramma di rendimento
Performance diagram

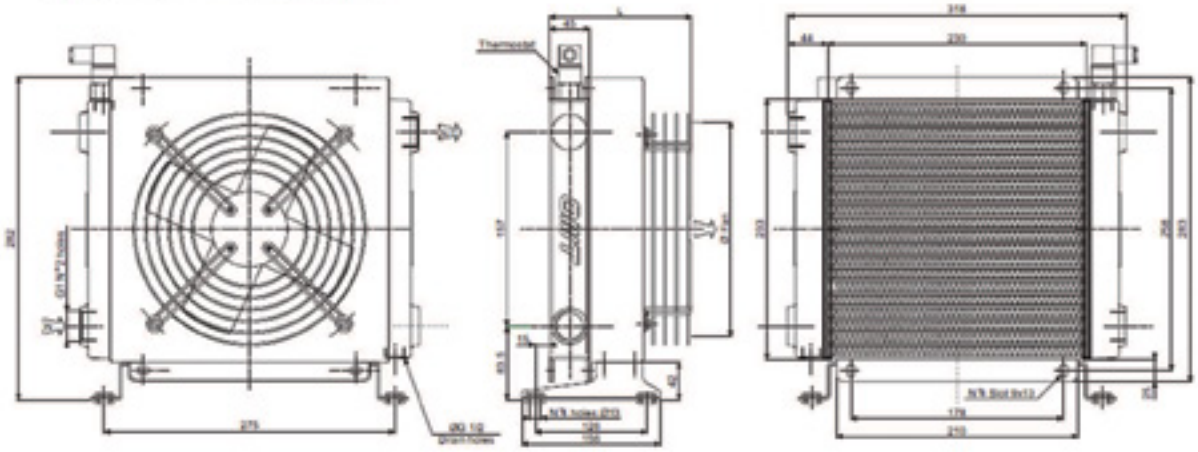


Heat Exchangers SS

SS15 — Suggested Oil Flow 20-80 l/min

Tipologia Type	Frequenza Frequency Hz	Tensione Voltage V	N° Giri/min RPM	Potenza Power kW	Diam. Ventola Ø FAN (mm)	dB (A)	L (mm)	Q air (m³/h)	Cap. (lt)	Peso Weight (kg)	IP
01	50/60	230	2600/2900	0.064/0.078	200	67	152	890	0.48	7	44
03	50/60	230/400	2600/2900	0.068/0.070	200	67	152	890	0.48	7	44
14	50/60	230/400	1370/1650	0.25	200	67	346	700	0.48	10	55
12	DC	12	3100	0.100	225	66	158	1200	0.48	6.5	65
24	DC	24	3000	0.100	225	66	158	1200	0.48	6.5	65
G2	-	-	-	-	200	-	-	-	-	6	-

Portata olio consigliata da 20 a 80 (lt/min)
Suggested oil flow from 20 to 80 (lt/min)



Coefficiente di correzione
Correction factor

CST	10	15	20	32	40	50	60	80	100	200
F	0.51	0.66	0.76	1	1.22	1.4	1.6	1.9	2.1	3.4

Diagramma perdite di carico (32 cst)
Pressure drop diagram (32 cst)

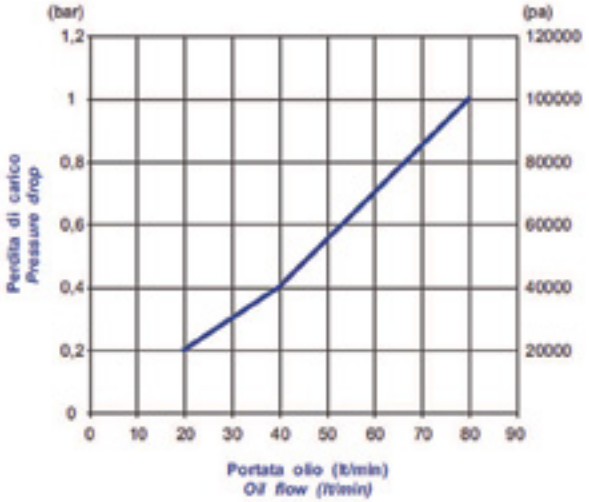
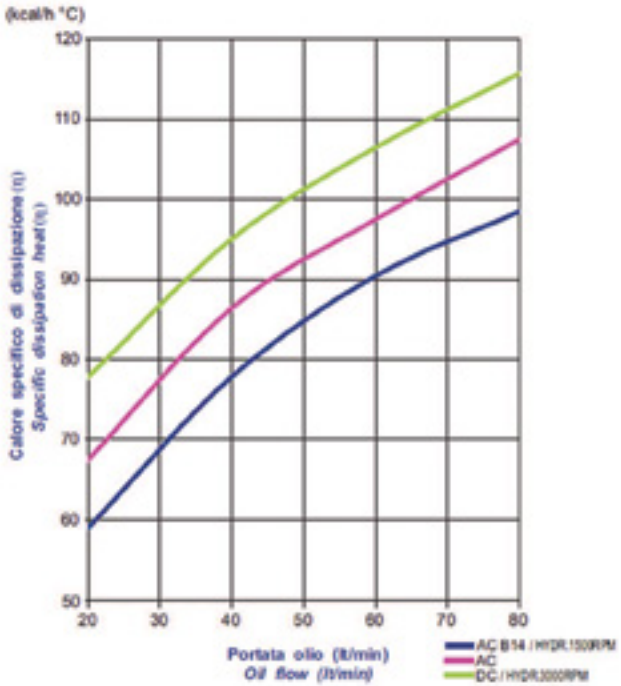


Diagramma di rendimento
Performance diagram

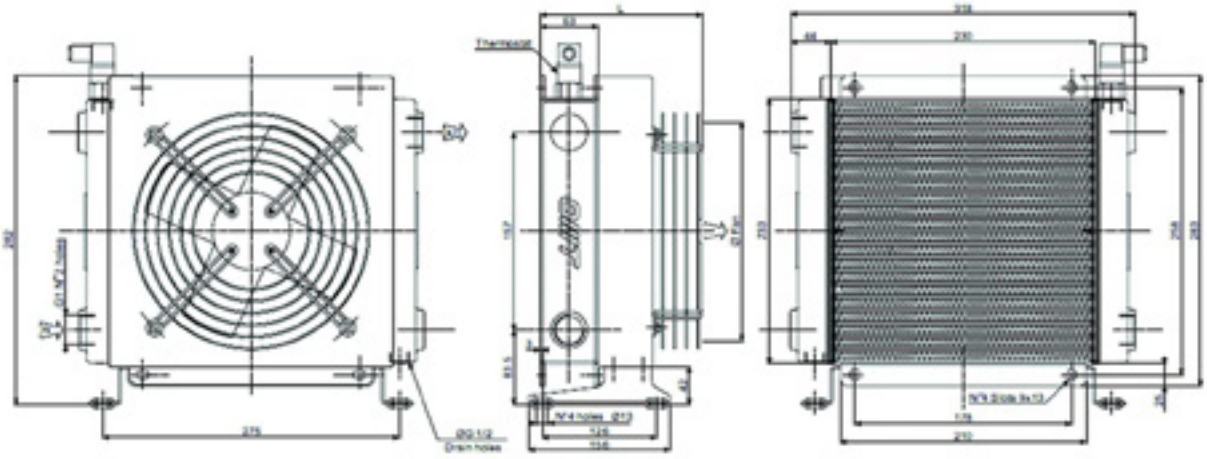


Heat Exchanger SS

SS20 — Suggested Oil Flow 30-100 l/min

Tipologia Type	Frequenza Frequency Hz	Tensione Voltage V	N° Giri/min RPM	Potenza Power kW	Diam. Ventola Ø FAN (mm)	dB (A)	L (mm)	Q air (m³/h)	Cap. (lt)	Peso Weight (kg)	IP
01	50/60	230	2600/2900	0.064/0.078	200	67	170	890	0.68	8	44
03	50/60	230/400	2600/2900	0.068/0.070	200	67	170	890	0.68	8	44
14	50/60	230/400	1370/1650	0.25	200	67	364	700	0.68	11	55
12	DC	12	3100	0.100	225	66	176	1200	0.68	7	65
24	DC	24	3000	0.100	225	66	176	1200	0.68	7	65
G2	-	-	-	-	200	-	-	-	-	7	-

Portata olio consigliata da 30 a 100 (lt/min)
Suggested oil flow from 30 to 100 (lt/min)



Coefficiente di correzione
Correction factor

CST	10	15	20	32	40	50	60	80	100	200
F	0.51	0.66	0.76	1	1.22	1.4	1.6	1.9	2.1	3.4

Diagramma perdite di carico (32 cst)
Pressure drop diagram (32 cst)

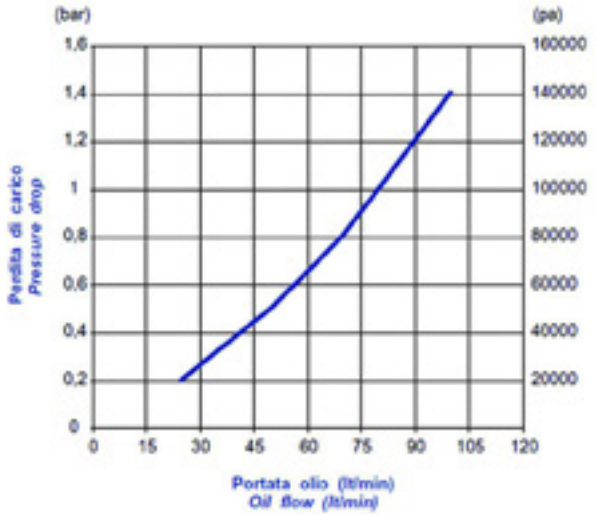
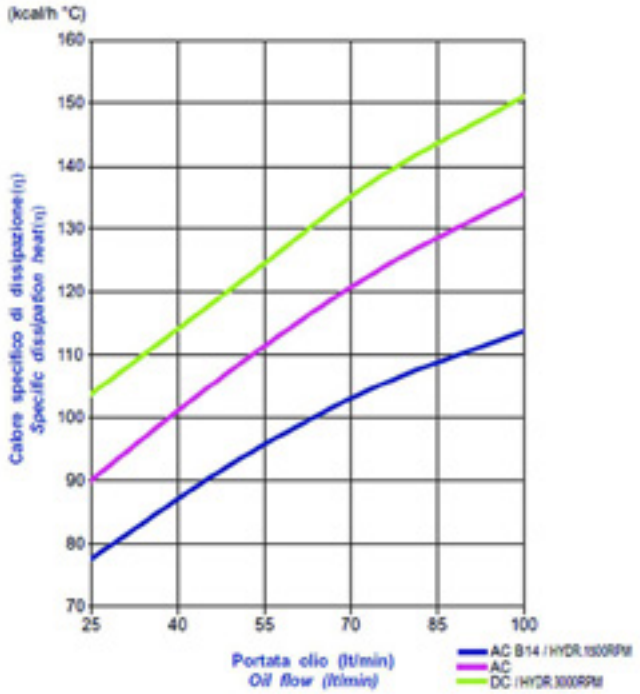


Diagramma di rendimento
Performance diagram

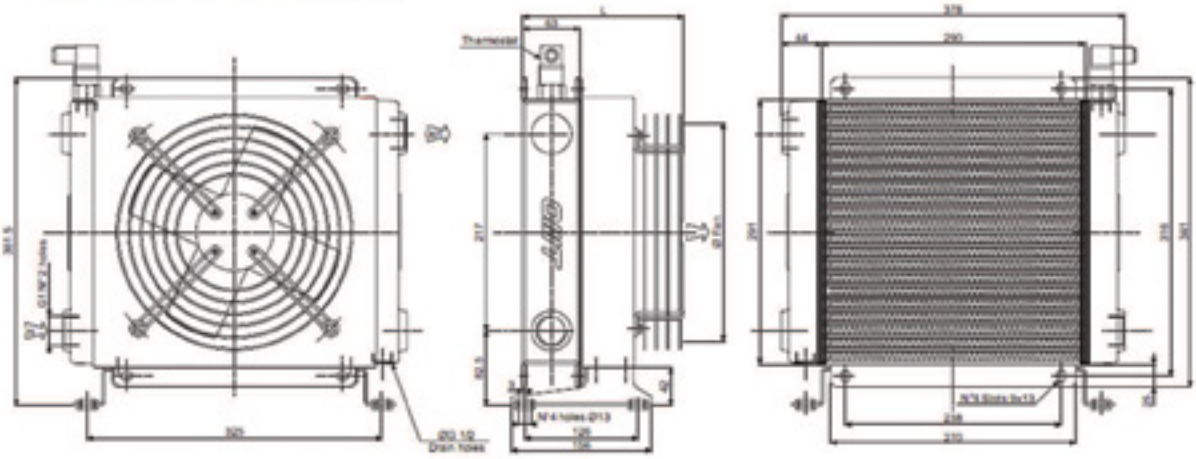


Heat Exchangers SS

SS24 — Suggested Oil Flow 40-120 l/min

Tipologia Type	Frequenza Frequency Hz	Tensione Voltage V	N° Giri/min RPM	Potenza Power kW	Diam. Ventola Ø FAN (mm)	dB (A)	L (mm)	Q air (m³/h)	Cap. (lt)	Peso Weight (kg)	IP
01	50/60	230	2550/2750	0.11/0.16	250	68	169	1780	0.9	11	44
03	50/60	230/400	2500/2650	0.10/0.14	250	68	169	1780	0.9	11	44
14	50/60	230/400	1370	0.25	250	68	364	1500	0.9	15.5	55
12	DC	12	3000	0.100	280	66	176	1600	0.9	10	65
24	DC	24	3000	0.100	280	66	176	1600	0.9	10	65
G2	-	-	-	-	250	-	-	-	-	10	-

Portata olio consigliata da 40 a 120 (lt/min)
Suggested oil flow from 40 to 120 (lt/min)



Coefficiente di correzione
Correction factor

CST	10	15	20	32	40	50	60	80	100	200
F	0.51	0.66	0.76	1	1.22	1.4	1.6	1.9	2.1	3.4

Diagramma perdite di carico (32 cst)
Pressure drop diagram (32 cst)

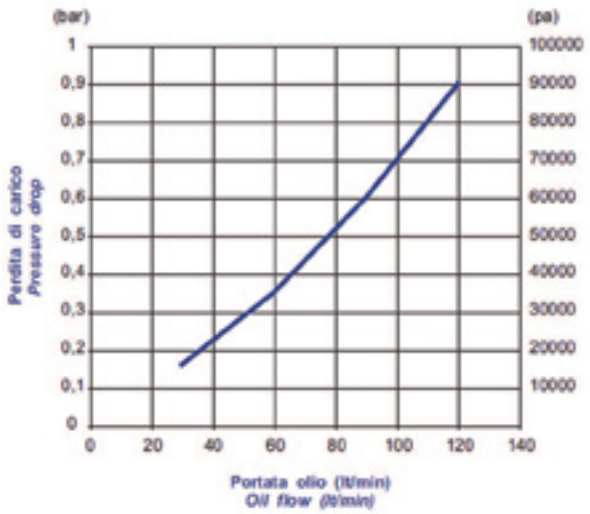
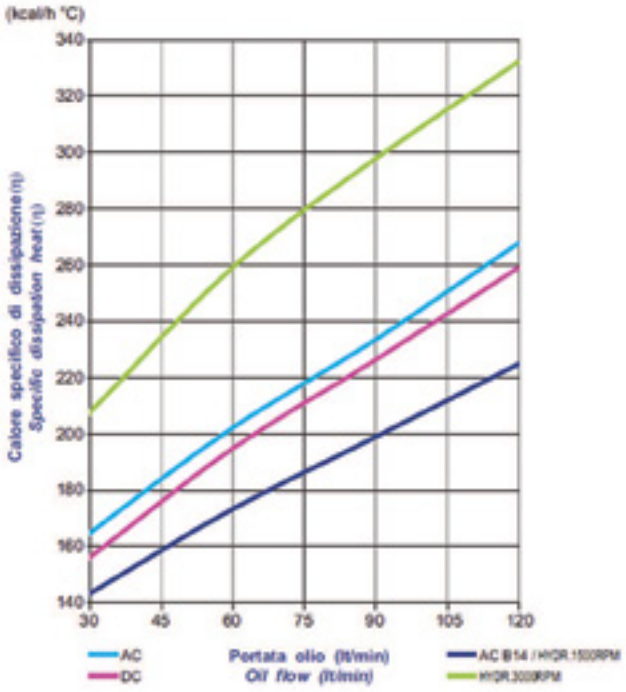


Diagramma di rendimento
Performance diagram

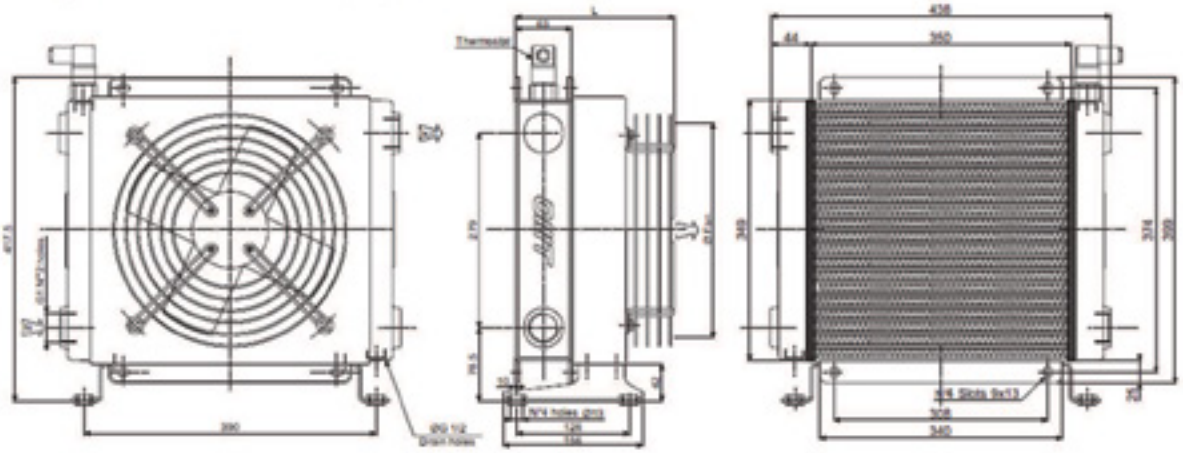


Heat Exchangers SS

SS30 — Suggested Oil Flow 35-140 l/min

Tipologia Type	Frequenza Frequency Hz	Tensione Voltage V	N° Giri/min RPM	Potenza Power kW	Diam. Ventola Ø FAN (mm)	dB (A)	L (mm)	Q air (m³/h)	Cap. (lt)	Peso Weight (kg)	IP
01	50/60	230	2700/3000	0.23/0.35	300	69	183	3290	1.5	15	44
03	50/60	230/400	2600/2850	0.19/0.27	300	69	183	3290	1.5	15	44
14	50/60	230/400	1390	0.37	300	69	404	2000	1.5	20	55
12	DC	12	3000	0.175	305	67	219	2300	1.5	14	65
24	DC	24	3000	0.175	305	67	219	2300	1.5	14	65
G2	-	-	-	-	300	-	238	-	1.5	14.5	-

Portata olio consigliata da 35 a 140 (lt/min)
Suggested oil flow from 35 to 140 (lt/min)



Coefficiente di correzione
Correction factor

CST	10	15	20	32	40	50	60	80	100	200
F	0.51	0.66	0.76	1	1.22	1.4	1.6	1.9	2.1	3.4

Diagramma perdite di carico (32 cst)
Pressure drop diagram (32 cst)

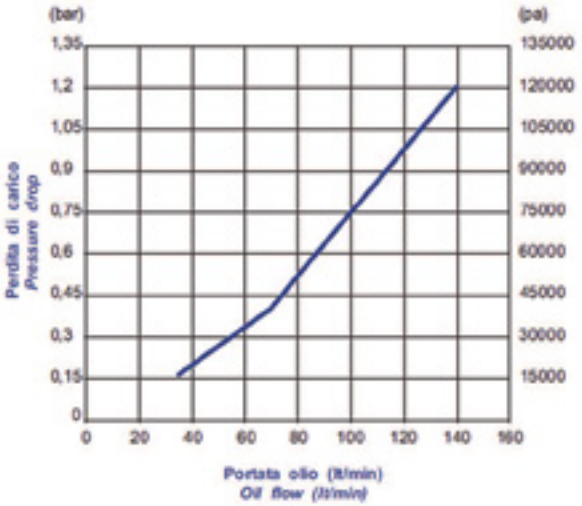
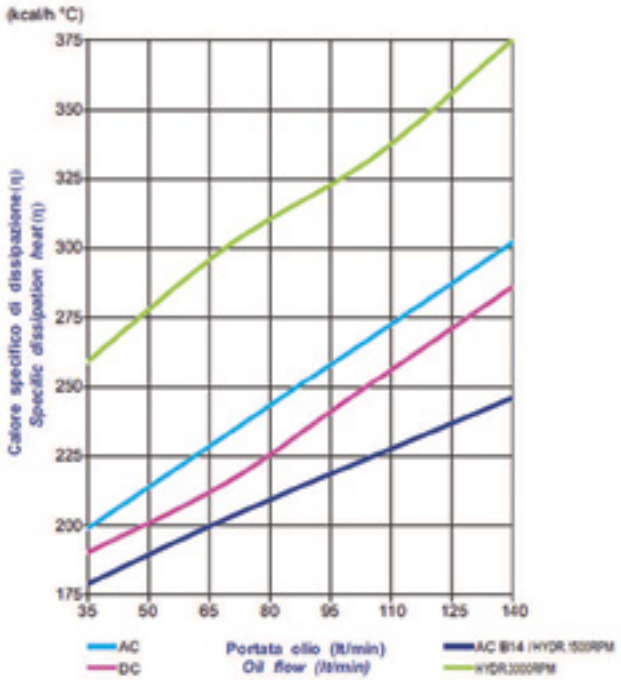


Diagramma di rendimento
Performance diagram

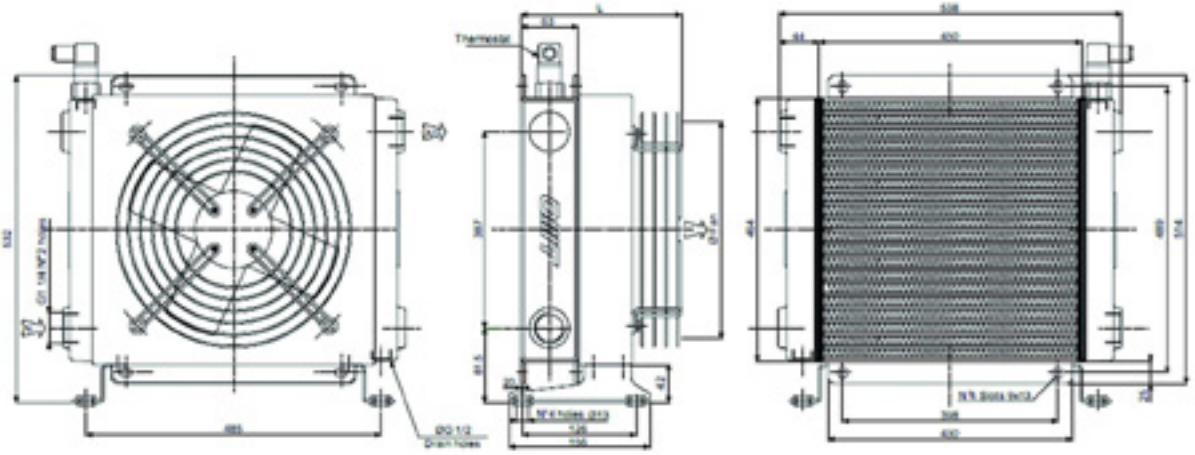


Heat Exchangers SS

SS40 — Suggested Oil Flow 40-160 l/min

Tipologia Type	Frequenza Frequency Hz	Tensione Voltage V	N° Giri/min RPM	Potenza Power kW	Diam. Ventola Ø FAN (mm)	dB (A)	L (mm)	Q air (m³/h)	Cap. (lt)	Peso Weight (kg)	IP
01	50/60	230	1440/1700	0.16/0.24	400	71	223	4000	2.6	21	44
03	50/60	230/400	1450/1690	0.13/0.18	400	71	223	4000	2.6	21	44
14	50/60	230/400	1430	0.55	400	71	446	4000	2.6	25	55
12	DC	12	2500	0.200	385	69	229	3500	2.6	20	65
24	DC	24	2500	0.200	385	71	229	3500	2.6	20	65
G2	-	-	-	-	400	-	248	-	2.6	19	-

Portata olio consigliata da 40 a 160 (lt/min)
Suggested oil flow from 40 to 160 (lt/min)



Coefficiente di correzione
Correction factor

CST	10	15	20	32	40	50	60	80	100	200
F	0.51	0.66	0.76	1	1.22	1.4	1.6	1.9	2.1	3.4

Diagramma di rendimento
Performance diagram

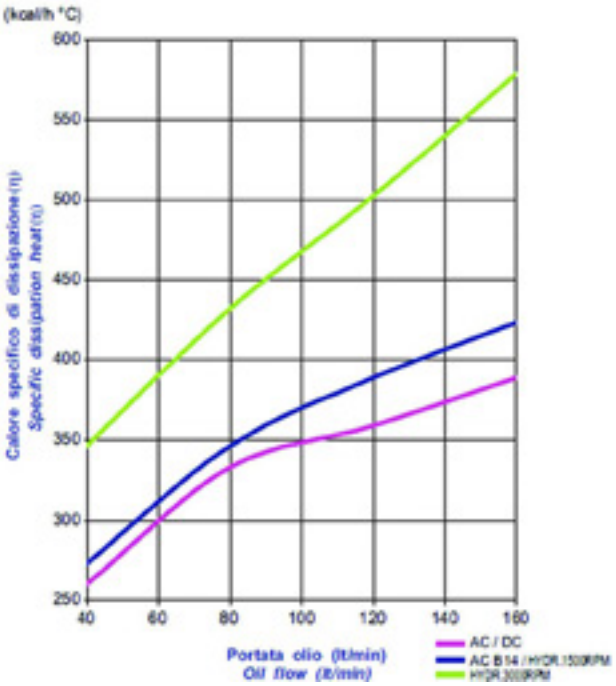
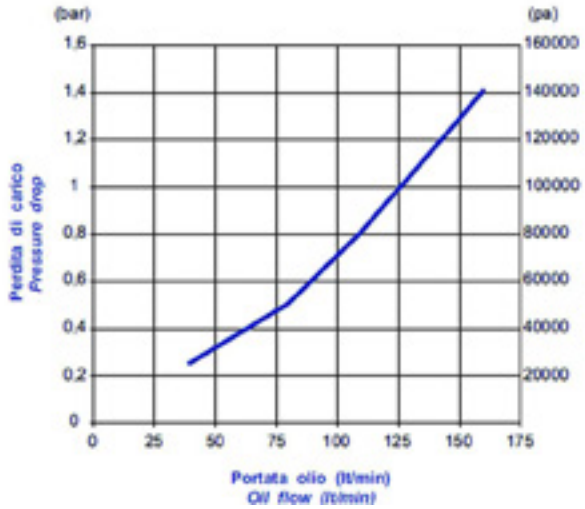


Diagramma perdite di carico (32 cst)
Pressure drop diagram (32 cst)



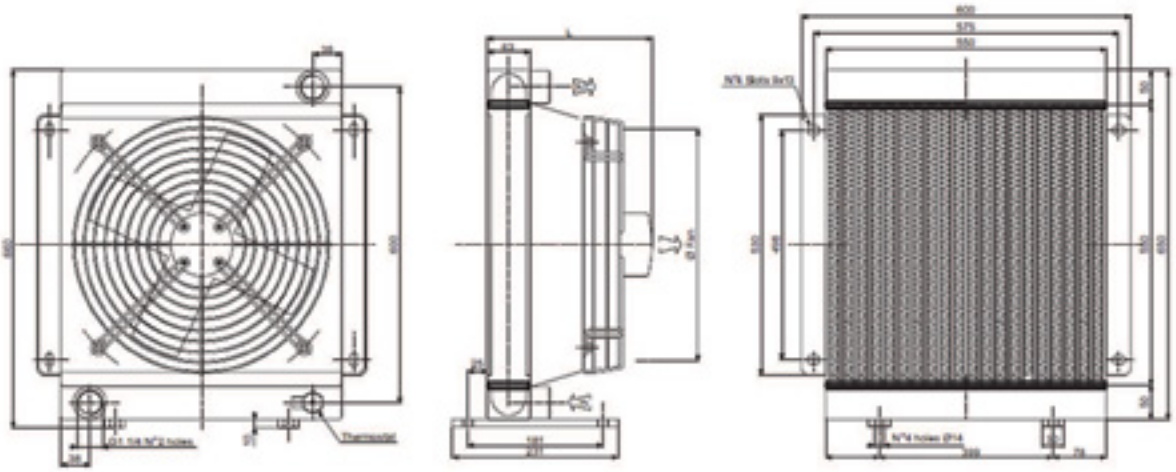
Heat Exchangers SS

SS50 — Suggested Oil Flow 50-180 l/min

Tipologia Type	Frequenza Frequency Hz	Tensione Voltage V	N° Giri/min RPM	Potenza Power kW	Diam. Ventola Ø FAN (mm)	dB (A)	L (mm)	Q air (m³/h)	Cap. (lt)	Peso Weight (kg)	IP
03	50/60	230/400	1380/1840	0.20/0.28	450	73	290	6830	4,9	27	44
14	50/60	230/400	1430	0.75	450	73	446	6830	4,9	30	55
12	DC	12	3000	0.145 (x2)	280	73	207	4200	4,9	24	65
24	DC	24	3000	0.145 (x2)	280	73	207	4200	4,9	24	65
G2	-	-	-	-	450	-	248	-	4,9	23	-

Portata olio consigliata da 50 a 180 (lt/min)
Suggested oil flow from 50 to 180 (lt/min)

(x2) = doppio motore
(x2) = double engine



Coefficiente di correzione
Correction factor

CST	10	15	20	32	40	50	60	80	100	200
F	0.51	0.66	0.76	1	1.22	1.4	1.6	1.9	2.1	3.4

Diagramma perdite di carico (32 cst)
Pressure drop diagram (32 cst)

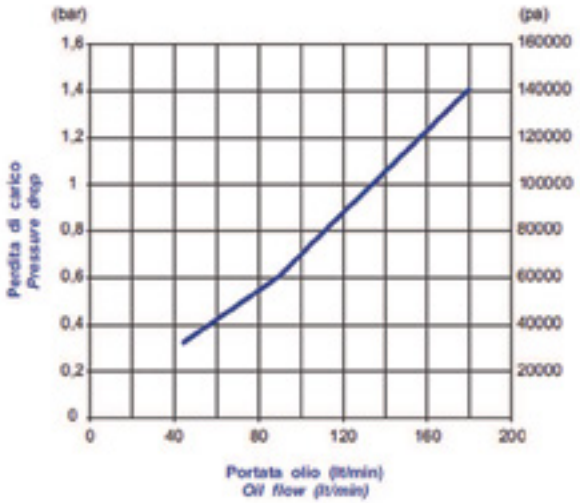
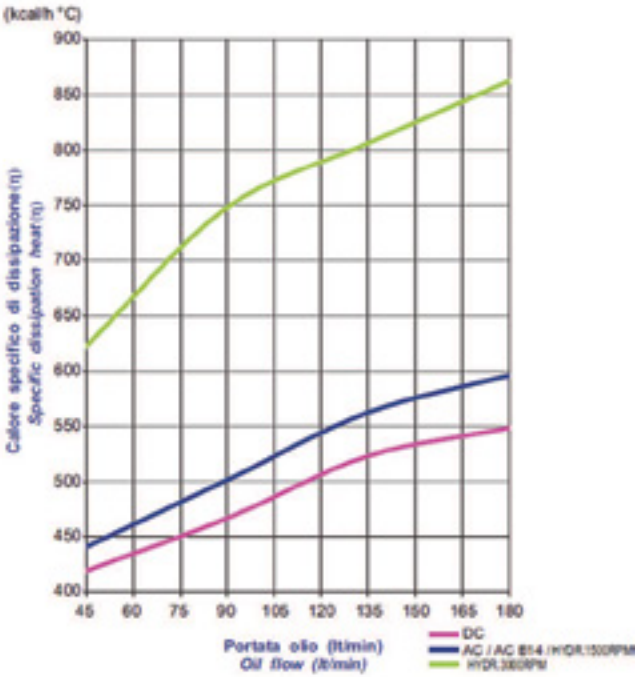


Diagramma di rendimento
Performance diagram

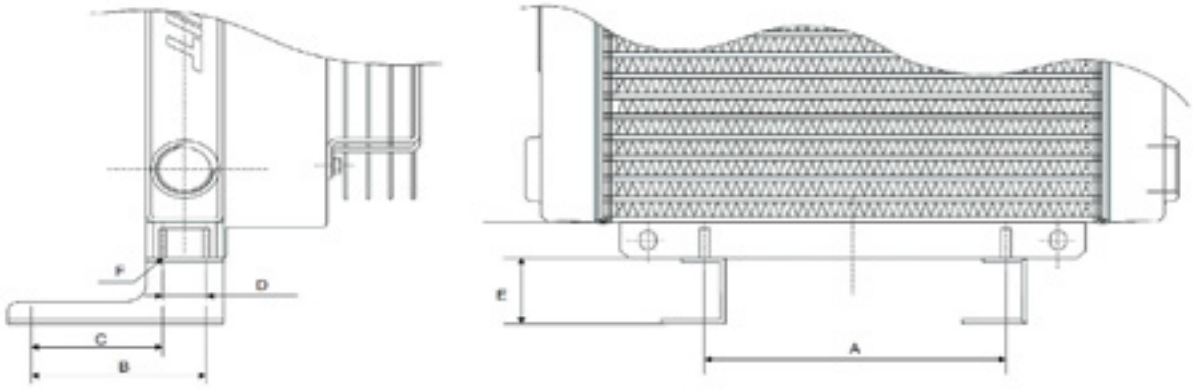


Cooler Accessories

Bi Metallic Temperature Switches

ST Cooler Switch	Working Temperature Celcius	Contact NA=Normally open NO=Normally closed	Thread Size
T01-M22 x 1.5	36-26	NA / NC	M22 x 1.5
T02-M22 x 1.5	42-33	NA / NC	M22 x 1.5
T03-M22 x 1.5	52-42	NA / NC	M22 x 1.5
T04-M22 x 1.5	65-55	NA / NC	M22 x 1.5
T05-M22 x 1.5	75-65	NA / NC	M22 x 1.5
T06-M22 x 1.5	85-75	NA / NC	M22 x 1.5
T07-M22 x 1.5	95-85	NA / NC	M22 x 1.5
SS Cooler Switch			
T01	36-26	NA / NC	1/2” BSP
T02	42-33	NA / NC	1/2” BSP
T03	52-42	NA / NC	1/2” BSP
T04	65-55	NA / NC	1/2” BSP
T05	75-65	NA / NC	1/2” BSP
T06	85-75	NA / NC	1/2” BSP
T07	95-85	NA / NC	1/2” BSP
Adjustable Switch			
T08	0-90	Cut off or switching contacts	1/2” NPT

Foot Mounting Flanges for ST Coolers



Type	Foot Flanges	A	B	C	D	E	F
ST50	P-SSA50-VN	140	125	101	24	45	M6
ST60	P-SSA50-VN	190	125	101	24	45	M6
ST100	P-SSA100-VN	190	127	91	36	50	M6
ST150	P-SSA100-VN	250	127	91	36	50	M8
ST180	P-SSA100-VN	370	127	91	36	50	M8
ST210	P-SSA210-VN	370	144	78	66	50	M8
STD50	P-SSA50-VN		125	101	24	45	M8

Water Coolers,
Dual Pass &
Dual Fan Coolers availailable.....

Diaphragm Accumulators
Energy Accumulators/Pulsation Dampeners

Electron-beam welded Hydraulic Accumulators
- **Large volume and performance range**
- **0.7 to 3.5 Litre Capacity**
- **Pressure range up to 350 bar (high bursting strength)**
- **Low maintenance Design**
- **Long service life**

Energy accumulation
- **Controlled energy delivery for hydraulic applications**

Application-specific design
- **The most varied diaphragm and housing materials**
- **Refilable**
- **Low permeation**

Pulsation damping
- **Vibration and noise reduction with pressure surges**
- **Efficiency and extension of service life**

Part Ref	Volume Litre	Max Working Pressure bar	Total Height mm	Outside Diameter mm	Nitrogen Port Thread	Oil Port Thread	Weight Kg
007-1315-013-611	0.07	250	117	64	M28x1.5	1/2” GAS	0.7
016-1315-024-611	0.16	250	126	75	M28x1.5	1/2” GAS	1
032-1315-044-611	0.32	210	141	92	M28x1.5	1/2” GAS	1.5
050-1315-013-611	0.5	210	159	107	M28x1.5	1/2” GAS	2
060-1315-013-711	0.6	330	178	110	M28x1.5	1/2” GAS	3
075-1315-053-611	0.75	210	169	122	M28x1.5	1/2” GAS	2.6
075-1315-022-711	0.75	350	173	129	M28x1.5	1/2” GAS	4
100-1315-083-611	1	210	188	136	M28x1.5	1/2” GAS	3.7
100-1315-053-711	1	350	199	129	M28x1.5	1/2” GAS	5
140-1315-153-641	1.4	210	202	147	M28x1.5	1/2” GAS	4.5
140-1315-022-711	1.4	350	194	156	M28x1.5	1/2” GAS	7
200-1315-142-611	2	250	255	156	M28x1.5	3/4” GAS	9.5
200-1315-042-711	2	350	255	156	M28x1.5	3/4” GAS	9.5
280-1315-032-611	2.8	250	270	169	M28x1.5	3/4” GAS	8.5
350-1315-072-611	3.5	250	309	169	M28x1.5	3/4” GAS	10.2

Bladder Accumulators
Carbon Steel EN14359 97/23/EC

Hydropneumatic Accumulators
Volumes up to 500 Litre Capacity
Maximum working pressures up to 380 bar
Repairable bladder accumulators include a carbon steel/stainless steel, forged/welded body, a repairable bladder, a nitrogen valve connection and an oil valve connection with seals.
Higher pressures are available up to 680 bar (10’000 psi) (Design ASME U-STAMP)

Part Ref	Volume Litre	Max Working Pressure bar	Maximum Flow rate lpm	Total Length mm	Bowl outside Diameter mm	Nitrogen Port Thread	Oil Port Thread	Weight Kg
A-51C-E001NK-DC	1	380	244	328	115	5/8” M10X1.5	3/4” GAS	6
A-51C-E02.5NK-CC	2.5	350	450	548	115	5/8” M10X1.5	1 1/4” GAS	11
A-51C-E004NK-CC	4	350	450	420	169	5/8” M10X1.5	1 1/4” GAS	14
A-51C-E005NK-CC	5	350	450	897	115	5/8” M10X1.5	1 1/4” GAS	19
A-51C-E006NK-CC	6	350	450	559	170	5/8” M10X1.5	1 1/4” GAS	20
A-51C-E010NK-AC	10	355	900	568	219	5/8” M10X1.5	2” GAS	30
A-51C-E020NK-AC	20	355	900	888	219	5/8” M10X1.5	2” GAS	50
A-51C-E024.5NK-AC	24.5	355	900	1028	219	5/8” M10X1.5	2” GAS	53
A-51C-E032NK-AC	32	355	900	1380	219	5/8” M10X1.5	2” GAS	80
A-51C-E050NK-AC	50	355	900	1885	219	5/8” M10X1.5	2” GAS	100

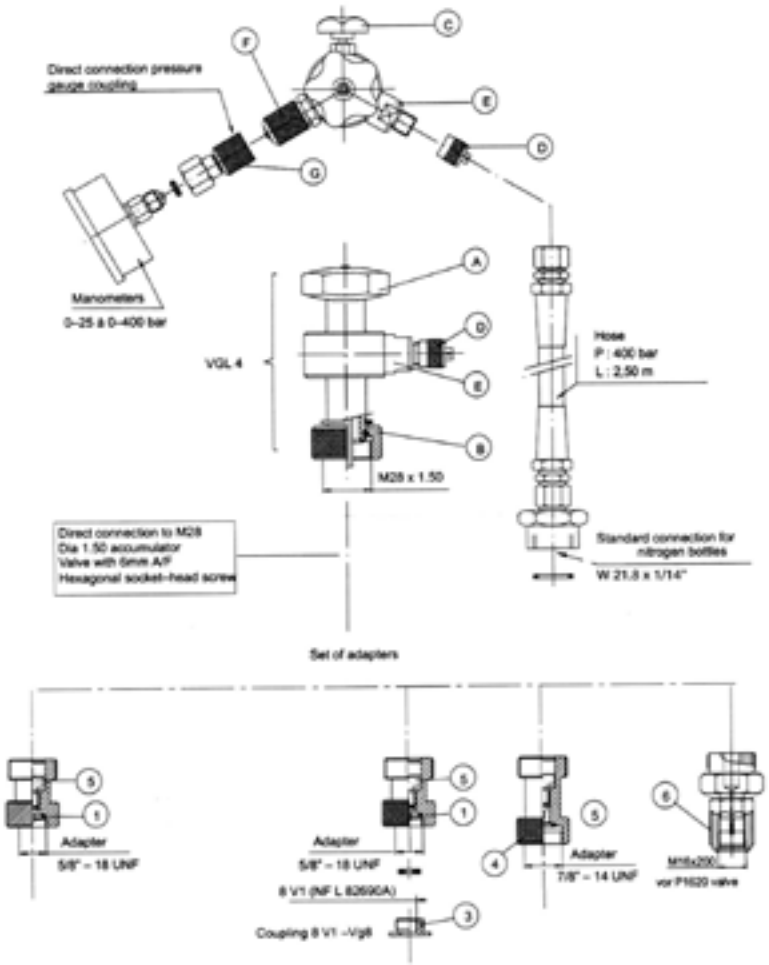
TEL. 0118 978 2555 SALES@HYCON.CO.UK WWW.HYCON.CO.UK

Accumulators Accessories

Accumulator Clamp Brackets

Part Ref	Diameter mm	Suitable Diaphragm Accumulators
COLLARE-C-62/65	62-65	007-1315-013-611
COLLARE-C-73/77	73-75	016-1315-024-611
COLLARE-C-89/92	89-92	032-1315-044-611
COLLARE-C-106/114	106-114	050-1315-013-611 060-1315-013-711
COLLARE-C-121/129	121-129	075-1315-053-611 075-1315-022-711 100-1315-053-711
COLLARE-C-133/142	133-142	100-1315-083-611
COLLARE-C-143/151	143-151	140-1315-153-641
COLLARE-C-152/159	152-159	140-1315-022-711 200-1315-142-611 200-1315-042-711
COLLARE-C-167/175	167-175	280-1315-032-611 / 350-1315-072-611
COLLARE-C-219	219	

Pre Charging Nitrogen Kit — Type PCNK



Notes

TEL. 0118 978 2555 SALES@HYCON.CO.UK WWW.HYCON.CO.UK

Notes

Hycon Limited Terms and Conditions of Sale

1.Where to find information about us and our products. We are Hycon Limited (registered in England and Wales with company number: 03316060). Our registered office address is at Wyvols Court Basingstoke Road, Swallowfield, Reading, Berkshire, England, RG7 1WY. Our VAT number is GB642234366. You can find everything else you need to know about us and our products on our website www.hycon.co.uk in our catalogue or from our sales staff before you order. We also confirm the key information to you in writing before or after you place your order (depending on how you purchase product(s) from us) either by email, in your online account or on paper. 2.We don't give business customers all the same rights as consumers. For example, business customers can't cancel their orders, they have different rights where there is a problem with a product, and we don't compensate them in the same way for losses caused by us or our products. We have clearly stated where a term applies just to businesses or just to consumers. You are a business customer if you are buying products wholly or mainly for use in connection with your trade, business, craft, or profession, even if you are an individual. 3.If you are a business customer this is our entire agreement with you. If you are a business customer these terms constitute the entire agreement between us in relation to your purchase. You acknowledge that you have not relied on any statement, promise, representation, assurance or warranty made or given by us or on our behalf which is not set out in these terms and that you have no claim for innocent or negligent misrepresentation or negligent misstatement based on any statement in this agreement. 4.We only accept orders when we've checked them. We will confirm we have received your order. We will then contact you to confirm we've accepted your order, unless we reject your order for any reason in which case we will contact you to let you know (see clause 5 below). 5.Sometimes we reject orders. 5.1.Sometimes we reject orders, for example, because a product is unexpectedly out of stock, because a credit reference we have obtained is unsatisfactory because you are a consumer located outside the UK (we only supply to customers outside the UK who are business customers) or because the product was mispriced by us. When this happens, we let you know as soon as possible and if applicable refund any sums you have paid. 5.2.We may also offer you an alternative product if, for example, the product you have ordered is out of stock or has a long 'lead time' (see clause 9 and clause 35.3). If we do this and you accept the alternative product, this contract will be amended to apply to the alternative product instead. If you do not accept the alternative product, you can either wait for the original product (if applicable) or terminate the contract. 6.The price of the product(s) shall be the price notified to you (on the website, over the telephone, by email or on social media) when you place your order. A full price list is available by email on request but please note that this is an extremely large file so not all systems will accept the file size. Please contact us if you would like any further information about pricing. 7.We charge you when you place your order, or we supply your product to you. When we charge you will depend on whether you are a business customer or a consumer and, if you are a business customer, whether you have an account with us. If you are a business customer and have an account with us, you may have a credit limit which means we will charge you when we supply your products to you. For all other customers, we will charge you when you place your order. You will own the product(s) once we have received payment in full. 8.If you are a business customer with an account and you have a credit limit, we can invoice you for the product(s) on or at any time after the completion of delivery.8.1.You must pay each invoice we submit within 30 days of the date of the invoice (or, if we have agreed different credit terms with you in writing when you set up your account, in accordance with those credit terms), in full and cleared funds to the bank account we nominate in writing to you. 8.2.If the price of the product(s) you order exceeds your credit limit, we may charge you when you place your order, or before delivery of the product(s), instead of invoicing you after delivery. 8.3.If your credit is overdue on your account, we may suspend supply of our products to you until you have settled your account. This clause 8.3 is in addition to, and does not limit our right to charge interest on overdue payments under clause 13.9.Delivery dates are estimates only. If we quote a delivery date when you place your order, that date is an estimate only and is not guaranteed. Some products may not be available immediately when you order them but can be pre-ordered, so may have what we call a 'lead time'. Where products have a lead time, we will update you when we know when they are likely to be delivered, but those dates will still be estimates and are not guaranteed. 10.If you are a business customer based outside the UK, part of the contract will be governed by the INCOTERMS 2020. If you are a business customer based outside the UK, we will rely on INCOTERMS 2020 to govern the relevant parts of the contract between us. The INCOTERM 2020 which will apply will be stated Customs Declaration CN23 when you place your order. In the circumstances where a provision of these terms and conditions conflicts with the relevant INCOTERM 2020, the relevant INCOTERM 2020 will prevail but the remainder of these terms and conditions will remain in full force and effect. 11.If you are a business customer, risk in the product(s) passes on delivery. If you are a business customer, risk in the product(s) passes to you on completion of delivery. 12.If you are a business customer, you have no set-off rights. If you are a business customer you must pay all amounts due to us under these terms in full without any set-off, counterclaim, deduction or withholding (other than any deduction or withholding of tax as required by law).13.We charge interest on late payments. If we're unable to collect any payment you owe us, we charge interest on the overdue amount at the rate of 3% a year above the Bank of England base rate from time to time. This interest accrues on a daily basis from the due date until the date of actual payment of the overdue amount, whether before or after judgment. You pay us the interest together with any overdue amount. 14.We pass on increases in VAT. If the rate of VAT changes between your order date and the date we supply the product, we adjust the rate of VAT that you pay, unless you have already paid in full before the change in the rate of VAT takes effect. 15.We're not responsible for delays outside our control. If our supply of your product is delayed by an event outside our reasonable control, we will contact you as soon as possible to let you know and do what we reasonably can to reduce the delay. As long as we do this, we won't compensate you for the delay, but if the delay is likely to be substantial, you can contact our Customer Service Team: by phone on 01189 782 555 or via email to sales@hycon.co.uk, to end the contract and receive a refund for any products you have paid for in advance, but not received, less reasonable costs we have already incurred. 16.Products can vary slightly from their pictures. A product's true colour may not exactly match that shown on your device or in our catalogue or its packaging may be slightly different. 17.You're responsible for making sure your measurements are accurate. If we are making or supplying a product to a drawing, design, specification and / or measurements provided by you, you are responsible for making sure those measurements are correct. Contact our Customer Service Team if you need to talk to us about any measurements: 01189 782 555 or sales@hycon.co.uk. 18.If we are making or supplying a product to drawing, design, specification and / or measurements provided by you, you need to make sure you have the rights and permissions to enable us to do that. If you are a business customer, you must pay us for all losses we suffer or incur in connection with any claim made against us that we have violated someone else's rights (for example, intellectual property rights) by making or supplying a product based on your drawing, design, specification and / or measurements. 19.We charge you if you don't give us information we need. We may charge you additional sums if you don't give us information, we've asked for to enable us to supply the product(s) to you or if you don't do preparatory work (e.g., for installation) as agreed with us. 20.If you ordered the incorrect product(s) and wish to return the product(s) you ordered, we may (at our discretion) accept the return of those incorrect product(s). If we do accept return of those product(s), we will charge a minimum administration fee of 15% of the price of the product(s) and we will refund the rest of the price to you by way of credit note only. If you are a consumer, this clause will only apply after your right to change your mind has expired (see Your legal right to change your mind). 21.If you are a consumer and you bought online, over the telephone, by email or by social media you have a legal right to change your mind. 22. Your legal right to change your mind. For most of our products bought by consumers online, over the telephone, by email or over social media, you have a legal right to change your mind about your purchase and receive a refund of what you paid for it, including the delivery costs. You have 14 days to change your mind and cancel the contract and if you do, you must pay the costs to return the product(s) to us. This right is subject to some conditions, as set out below. 23.When you can't change your mind. You can't change your mind about an order for: 23.1.products sealed for health protection or hygiene purposes, once these have been unsealed after you receive them. 23.2.products that are made to your specifications or are clearly personalised. 23.3.products that are likely to deteriorate or expire rapidly (for example, power packs will be contaminated once they are run); and 23.4.products which become mixed inseparably with other items after their delivery.24.The deadline for changing your mind. If you are a consumer and you change your mind about a product bought online, by email order, over the telephone or on social media, you must let us know no later than 14 days after the day, we deliver your product(s). If the product(s) are for regular delivery (for example, a subscription), you can only change your mind after the first delivery. If the goods are split into several deliveries over different days, the period runs from the day after the last delivery. 25.How to let us know. To let us know you want to change your mind, contact our Customer Service Team on 01189 782 555 or at sales@hycon.co.uk, or in writing to us at Hycon Limited Units 22-25, Kingsclere Business park, Kingsclere RG20 4SW. Alternatively, you can fill in the cancellation form which is available online at www.hycon.co.uk, in a versioin we have emailed to you (if applicable), in the version at the back of our catalogue. You can send the form to us by post or email at the details in this clause. 26.You must return the product at your own cost. If you exercise your right to change your mind, you must return the product(s) to us within 14 days of your telling us you have changed your mind. You must pay the costs of returning the product(s) to us. You can: 26.1.bring the product(s) to Hycon Limited, Units 22-25 Kingsclere Business Park, Kingsclere, Newbury, RG20 4SW (find our address at: www.hycon.co.uk You will need your email receipt and the card you paid with. 26.2.send the product back to us, using an established delivery service. If you do this, you should keep a receipt or other evidence from the delivery service that proves you have sent it and when you sent it. If you don't do this and we don't receive the product(s) at all or within a reasonable time, we won't refund you the price.For help with returns, contact our Customer Service Team: on 01189 782 555 or at sales@hycon.co.uk. 27.We only refund standard delivery costs. We don't refund any extra you have paid for express delivery or delivery at a particular time. 28.We reduce your refund if you have used or damaged a product. If you handle the product in a way which would not be acceptable in-store, we reduce your refund, to compensate us for its reduced value. For example, we reduce your refund if the product's condition is not "as new", price tags have been removed, the packaging is damaged, or accessories are missing. In some cases, because of the way you have treated the product, no refund may be due. Our Customer Service Team: on 01189 782 555 or at sales@hycon.co.uk can advise you on whether we're likely to reduce your refund. 29.When and how we refund you. If the product(s) haven't been delivered to you at the time you change your mind, we refund you as soon as possible and within 14 days of you telling us you've changed your mind. If you are sending the product(s) back to us, we refund you within 14 days of receiving them back from you (or receiving evidence you've sent them to us). We refund you by the method you used for payment. We don't charge a fee for the refund.You have rights if there is something wrong with your product. 30.Return the product to us. If you think there is something wrong with your product, you must either bring it into our store or contact our Customer Service Team 01189 782 555 or sales@hycon.co.uk. We may ask you questions to help us determine if there is something wrong with the product. For example, we may want to inspect the product and we may ask you questions to help us understand how you have been using the product. If we do this, you must allow us the opportunity to inspect the product and you must give us any details we request about the flow rate and pressure in the hydraulic circuit where you are using the product, and the way the product is used within the hydraulic circuit, when we request them. 31.Your rights and remedies if you are a consumer. We honour our legal duty to provide you with products that are as described to you on our website or in our catalogue, and that meet all the requirements imposed by law. Your legal rights are summarised below. These are subject to certain exceptions. For detailed information please visit the Citizens Advice website www.citizensadvice.org.uk. Remember too that You have several options for resolving disputes with us.Summary of your key legal rights

The Consumer Rights Act 2015 says goods (i.e., the products we sell) must be as described, fit for purpose and of satisfactory quality. During the expected lifespan of your product your legal rights entitle you to the following:

- up to 30 days: if your goods are faulty, then you can get a refund.
- up to six months: if your goods are faulty and can't be repaired or replaced, then you're entitled to a full refund, in most cases.
- up to six years: if your goods do not last a reasonable length of time, you may be entitled to some money back.
- If the fault can't be fixed, or if it hasn't been fixed within a reasonable time and without significant inconvenience, you can get some or all your money back.

32.Your rights if you are a business.

We warrant that on delivery the product(s) shall: 32.1conform in all material respects with their description and any relevant specification. 32.2.be free from material defects in design, material and workmanship. 32.3.be of satisfactory quality (within the meaning of the Sale of Goods Act 1979); and 32.4.be fit for any purpose held out by us. 33.Your remedies if you are a business. Unless an exception applies (see Exceptions to business customers' warranty.) if: 33.1.you give us notice in writing within a reasonable time of discovery that a product does not comply with the business customer warranty; 33.2.we are given a reasonable opportunity of examining such product and / or you give us, on request, the opportunity to check the application of the product (i.e. how you are using it), including by giving us any details we request about the flow rate and pressure in the hydraulic circuit where you are using the product, and the way the product is used within the hydraulic circuit, when we request them; and 33.3.you return such product to us at your cost, we shall, at our option, repair or replace the defective product, or refund the price of the defective product in full and this will be your only remedy for breach of the warranty. These terms shall apply to any repaired or replacement products supplied by us.

Hycon Limited Terms and Conditions of Sale

34.Exceptions to business customers' warranty. We will not be liable for a product's failure to comply with the business customer warranty (see Your rights if you are a business.) if: 34.1.you make any further use of such product after telling us it is non-compliant. 34.2.the defect arises because you failed to follow our oral or written instructions (including any manufacturer's instructions or specifications we provide to you relating to the product) as to the storage, installation, commissioning, use or maintenance of the product or (if there are none) good trade practice. 34.3 the defect arises because we followed any drawing, design or specification supplied by you. 34.4.you alter or repair or dismantle the product without our written consent; or 34.5.the defect arises because of fair wear and tear, wilful damage, negligence, or abnormal working conditions. 35.We can change products and these terms. 35.1.Changes we can always make. We can always change a product: 35.1.1.to reflect changes in relevant laws and regulatory requirements. If the change is significant then we will contact you to let you know, and offer you the chance to cancel the contract and receive a refund for products you have paid for but won't receive; and 35.1.2.to make minor technical adjustments and improvements, for example to address a security threat. These are changes that don't affect your use of the product. 35.2.Changes we can only make if we give you notice and an option to terminate. We can also make the following types of change to the product or these terms, but if we do so we'll notify you and you can then contact our Customer Service Team: on 01189 782 555 or at sales@hycon.co.uk to end the contract before the change takes effect and receive a refund for any products you've paid for in advance, but won't receive. 35.3.We may adjust the price of our products and may allow you to terminate if we do. Some products may not be available immediately when you order them but can be pre-ordered, so may have what we call a 'lead time'. The nature of these products means the price of them may change between the date you place your order and the date they products are delivered to you. If the price increases, we will let you know and offer you the right to terminate the contract.

36.We can withdraw products. We can stop providing a product and withdraw it from our website or our catalogue at any time. 37.We can end our contract with you. We can end our contract with you for a product and claim any compensation due to us if: 37.1.you don't make any payment to us when it's due and you still don't make payment within 14 days of our reminding you that payment is due; or 37.2.you don't, within a reasonable time of us asking for it, provide us with information, cooperation or access that we need to provide the product, for example, details of where we should deliver the product to or specifications for a product you want us to manufacture for you. 38.We don't compensate you for all losses caused by us or our products. 38.1.1.Our liability to consumers. We're responsible for losses you suffer caused by us breaking this contract unless the loss is: 38.1.2.Unexpected. It was not obvious that it would happen and nothing you said to us before we accepted your order meant we should have expected it (so, in the law, the loss was unforeseeable). 38.1.3.Caused by a delaying event outside our control. As long as we have taken the steps set out in the section We're not responsible for delays outside our control. 38.1.4.Avoidable. Something you could have avoided by taking reasonable action. For example, damage to your own possessions or equipment, which was caused by a product we supplied and which you could have avoided by correctly following the instructions for installation or use provided with the product. 38.1.5.A business loss. Where you have purchased a product as a consumer, we are not liable for any loss you suffer in connection with your trade, business, craft or profession. 38.2 Our liability to businesses. If you're a business, then, except in respect of the losses described in Losses we never limit or exclude.: 38.2.1.we shall not be liable to you, whether in contract, tort (including negligence), breach of statutory duty, or otherwise, for any loss of profit, or any indirect or consequential loss arising under or in connection with any contract between us; 38.2.2 our total liability to you for all other losses arising under or in connection with any contract between us, whether in contract, tort (including negligence), breach of statutory duty, or otherwise, shall be limited to the total sums paid by you for products under that contract; and 38.2.3.if we fail to deliver the products, our liability shall be limited to the costs and expenses you incur by obtaining replacement products of similar description and quality in the cheapest market available, less the price of the products. We shall have no liability for any failure to deliver the products to the extent that such failure is caused by your failure to provide us with adequate delivery instructions or any other instructions that are relevant to the supply of the products. 38.3.Losses we never limit or exclude. Nothing in these terms shall limit or exclude our liability for any matter in respect of which it would be unlawful for us to exclude or restrict liability, including: 38.3.1.death or personal injury caused by our negligence, or the negligence of our employees, agents or subcontractors (as applicable); 38.3.2.fraud or fraudulent misrepresentation; 38.3.3 breach of the terms implied by section 12 of the Sale of Goods Act 1979 or section 2 of the Supply of Goods and Services Act 1982; 38.3.4.defective products under the Consumer Protection Act 1987. 38.4.No implied terms about goods. Except to the extent expressly stated in Your rights if you are a business., we exclude all terms implied by sections 13 to 15 of the Sale of Goods Act 1979 and sections 3 to 5 of the Supply of Goods and Services Act 1982. 39.We use your personal data as set out in our Privacy Notice. If you are a consumer, how we use any personal data you give us is set out in our Privacy Notice. 40.You have several options for resolving disputes with us. Our Customer Service Team: on telephone number 0118 978 2555 or by email to sales@hycon.co.uk will do their best to resolve any problems you have with us or our products, as per our Complaints policy which is available on our website. 41.You can go to court. These terms are governed by English law. If you are a consumer then, wherever you live, you can bring claims against us in the English courts and if you live in Wales, Scotland, or Northern Ireland, you can also bring claims against us in the courts of the country you live in. If you are a consumer, we can claim against you in the courts of the country you live in. If you are a business, you irrevocably agree to submit all disputes arising out of or in connection with our contract with you to the exclusive jurisdiction of the English courts. 42.Other important terms apply to our contract. 42.1.1.You can only transfer your contract with us to someone else if we agree to this. If you're a consumer we may not agree if it may be difficult for us or detrimental to us to agree. If you're a business, you need our agreement to transfer your contract with us and it's entirely up to us whether we give it. 42.1.2.Nobody else has any rights under this contract. This contract is between you and us. Nobody else can enforce it and neither of us will need to ask anybody else to sign-off on ending or changing it. 42.1.3.If a court invalidates some of this contract, the rest of it will still apply. If a court or other authority decides that some of these terms are unlawful, the rest will continue to apply. 42.1.4.Even if we delay in enforcing this contract, we can still enforce it later. We might not immediately chase you for not doing something (like paying) or for doing something you're not allowed to, but that doesn't mean we can't do it later. 42.1.5.Any reference to "in writing" in these terms and conditions includes email. 42.1.6.If you are a business customer, any variation of this contract only has effect if it is in writing and signed by both you and us (or our respective authorised representatives). 42.1.7.If you are a business customer, any notice given by one of us to the other under or in connection with this contract must be in writing and be delivered by hand, sent by pre-paid first class post or other next working day delivery service to the other party's registered office address (or, if there is no registered office address, their principle place of business), or email to the email address sales@hycon.co,uk, and will be deemed to have been received: (a).if delivered by hand, at the time the notice is left at the proper address (unless such time is before 09:00am or after 05:00pm on a working day, or on a non-working day, in which case it shall be deemed to have been delivered at 09:00am on the next working day). (b).if sent by pre-paid first-class post or other next working day delivery service, at 9.00 am on the second working day after posting; or (c).if sent by email, at 9.00 am the next working day after transmission.The provisions of this clause 42.1.7 shall not apply to the service of any proceedings or other documents in any legal action.

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hycon hydraulics

Hycon Limited est. 1998

MADE IN BRITAIN

Alphabetical Index

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