

CATFORD ENGINEERING PRODUCTS

Jamestown
SA 5491

All Prices Excluding GST

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www.catford.com.au sales@catford.com.au

Gear Pumps, Motors & Flow Dividers

*Group 1, 2 & 3 Pumps *Log Splitter Pumps

*Group 1, 2 & 3 Gear Motors *Gear Flow Dividers





Lot 25, Mannanarie Road, Jamestown, South Australia 5491



0418 641 566



sales@catford.com.au

Due to fluctuations in the Australian dollar and the economic climate, please be advised that all prices are subject to change.
Please contact us to confirm pricing.

All prices stated within are exclusive of GST
(All prices are correct as of January 1st 2022, but Catford Engineering reserve the right to change these prices without notice)

Gear Pumps, Motors & Flow Dividers

CATFORD Jamestown
SA 5491
ENGINEERING
PRODUCTS

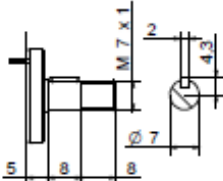
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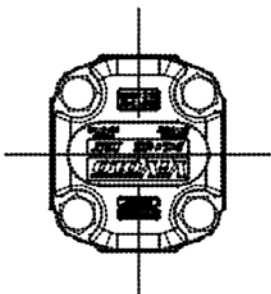
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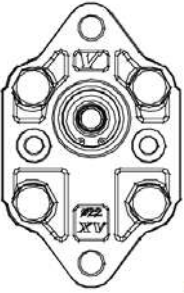
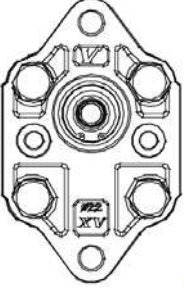
ORDER CODES FOR VIVOIL GROUP 0 PUMPS

Series	Group	Pump	Displacement	Flange	Shaft	Inlet Port	Outlet Port	Rear Cover
X	0	P	05	02	A	B	B	A

DISPLACEMENT	
0.17cc	01
0.25cc	02
0.45cc	04
0.57cc	05
0.76cc	06
0.98cc	07
1.27cc	09
1.52cc	11
2.30cc	13

SHAFT	
CI001 - Parallel $T_2 = 2.1 \text{ [Nm]}$  Parallel Ø 7mm M7x1 Key 2mm	A

REAR COVER	
	A

FLANGE	
LEFT ROTATION 	01
RIGHT ROTATION 	02

PORTS	INLET	OUTLET
0.17cc	B	B
0.25cc	B	B
0.45cc	B	B
0.57cc	B	B
0.76cc	B	B
0.98cc	B	B
1.27cc	B	B
1.52cc	B	B
2.30cc	B	B
B = 1/4" BSPP		

Group 0 Pump DIN Mount, M7x1 Keyed Shaft

Part #	List Price \$	CC	Maximum Pressure (bar)		Max/Min Speed (RPM)	Port S	Port P	Dimension (mm)		
			Working	Peak				A	B	C
XOP0102ABBA	370.00	0.17	220	260	700/9000	1/4" BSPP	1/4" BSPP	55.8	26.2	46.8
XOP0202ABBA	370.00	0.25	220	260	700/9000	1/4" BSPP	1/4" BSPP	56.4	26.5	47.4
XOP0402ABBA	370.00	0.45	220	280	700/9000	1/4" BSPP	1/4" BSPP	58	27.3	49
XOP0502ABBA	370.00	0.57	220	280	700/9000	1/4" BSPP	1/4" BSPP	59	27.8	50
XOP0602ABBA	370.00	0.76	220	280	700/9000	1/4" BSPP	1/4" BSPP	60.5	28.5	51.5
XOP0702ABBA	370.00	0.98	220	280	700/6000	1/4" BSPP	1/4" BSPP	62	29.3	53
XOP0902ABBA	408.00	1.27	220	280	700/6000	1/4" BSPP	1/4" BSPP	64.5	30.5	55.5
XOP1102ABBA	408.00	1.52	220	280	700/6000	1/4" BSPP	1/4" BSPP	66.5	31.5	57.5
XOP1302ABBA	408.00	2.3	190	210	700/5000	1/4" BSPP	1/4" BSPP	72.5	34.5	63.5

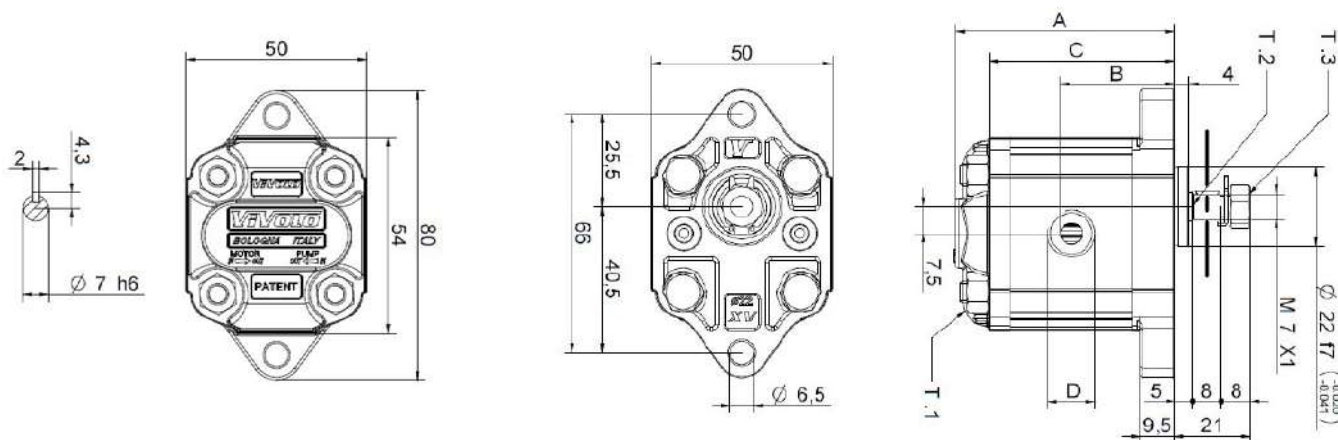
Group 0 Pump Seal Kit

Part #	List Price \$	Material
8KGX0P1-A	42.00	NBR



**Available as standard
CW rotation or CCW**

**Compatible with Group
0/1/2/3 tandem pumps**



ORDER CODES FOR VIVOIL GROUP 1 PUMPS

Series	Group	Pump	Displacement	Flange	Shaft	Inlet Port	Outlet Port	Rear Cover
X	1	P	27	01	F	B	B	A

DISPLACEMENT	
0.9cc	16
1.2cc	17
1.7cc	18
2.2cc	20
2.6cc	21
3.2cc	23
3.8cc	25
4.3cc	27
4.9cc	29
5.9cc	31
6.5cc	32
7.8cc	34
9.8cc	36

SHAFT	
CO001 - Tapered T.2 = 43 [Nm] Tapered 1:8 Ø 10mm - M7x1 Key 2.4mm	F
CI002 - Parallel T.2 = 32.8 [Nm] Parallel Ø 1/2" - Key 3.2mm	B
CF002 - Milled shank T.2 = 13.8 [Nm]	D

	FLANGE	
	LEFT ROTATION	RIGHT ROTATION
DIN Group 1	01	02
SAE-AA	61	62
(43)	43	44
(44)	43	44
(41)	41	42
(42)	41	42

PORTS	INLET	OUTLET
0.9cc	B	B
1.2cc	B	B
1.7cc	B	B
2.2cc	B	B
2.6cc	B	B
3.2cc	B	B
3.8cc	B	B
4.3cc	B	B
4.9cc	B	B
5.9cc	B	B
6.5cc	B	B
7.8cc	B	B
9.8cc	B	B
B = 3/8" BSPP		

REAR COVER	
A	
D	
N-O1 10-105 bar	
N-O2 70-210 bar	
N-O3 140-350 bar	
With Relief Valve	
RELIEF VALVES OPTIONS ON NEXT PAGE	

Please note:

Additional costs apply for non-standard options

Group 1 Pump Rear Cover with Integrated Relief Valve



Part #	List Price \$	Maximum Flow Rate	Relief Range	
			Minimum	Maximum
N-01	380.00	50 lpm	10 bar	105 bar
N-02	380.00	50 lpm	70 bar	210 bar
N-03	380.00	50 lpm	140 bar	350 bar



Please Note:

Pricing for rear cover with integrated relief valve is in addition to standard pump price.

Group 1 Pump DIN Mount, 1:8 Tapered Shaft



Part #	List Price \$	CC	Maximum Pressure (bar)		Max/Min Speed (RPM)	Port S	Port P	Dimension (mm)		
			Working	Peak				A	B	C
X1P1602FBBA	403.00	0.9	240	280	6000/700	3/8" BSPP	3/8" BSPP	78.1	37.3	66.1
X1P1702FBBA	403.00	1.2	250	290	6000/700	3/8" BSPP	3/8" BSPP	79.0	37.8	67.0
X1P1802FBBA	403.00	1.7	250	290	6000/700	3/8" BSPP	3/8" BSPP	80.5	38.5	68.5
X1P2002FBBA	403.00	2.2	250	290	6000/700	3/8" BSPP	3/8" BSPP	82.5	39.5	70.5
X1P2102FBBA	403.00	2.6	250	300	6000/700	3/8" BSPP	3/8" BSPP	84.5	40.5	72.5
X1P2302FCBA	403.00	3.2	250	300	6000/700	1/2" BSPP	3/8" BSPP	86.5	41.5	74.5
X1P2502FCBA	403.00	3.6	250	300	6000/700	1/2" BSPP	3/8" BSPP	88.5	42.5	76.5
X1P2702FCBA	403.00	4.3	250	300	6000/700	1/2" BSPP	3/8" BSPP	90.5	43.5	78.5
X1P2902FCBA	430.00	4.9	250	300	6000/700	1/2" BSPP	3/8" BSPP	93.5	45.0	81.5
X1P3102FCBA	430.00	5.9	250	300	5000/700	1/2" BSPP	3/8" BSPP	97.0	46.8	85.0
X1P3202FCBA	430.00	6.5	250	300	5000/700	1/2" BSPP	3/8" BSPP	98.5	48.0	86.5
X1P3402FCBA	430.00	7.8	220	260	5000/700	1/2" BSPP	3/8" BSPP	103.5	50.0	91.5
X1P3602FCBA	430.00	9.8	190	230	4000/700	1/2" BSPP	3/8" BSPP	112.5	54.5	100.5



Group 1 Pump Seal Kit

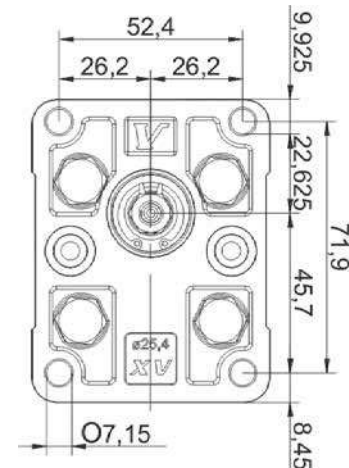
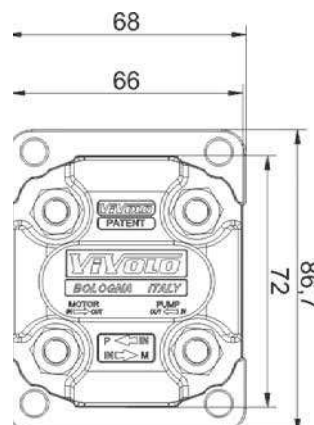
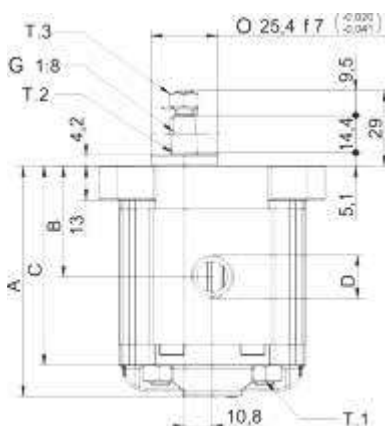


Part #	List Price \$	Material
8KGX1P1.A	39.00	NBR
8KGX1P1.V	119.00	Viton

Available as standard
CW rotation or CCW

Available with relief
valves, tandem pumps

Available with SAE A-2
bolt with keyed shaft

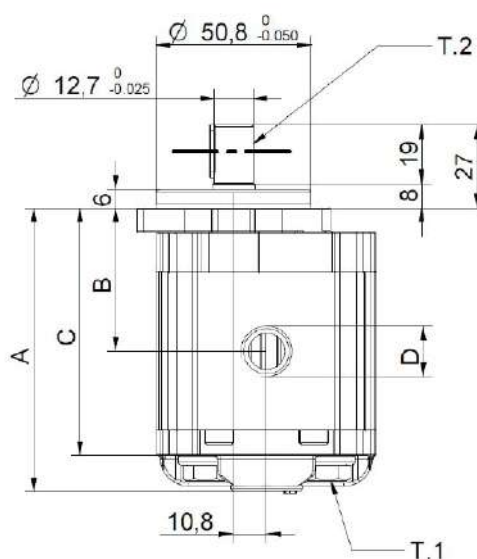
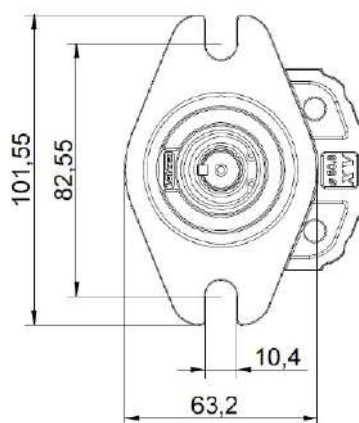
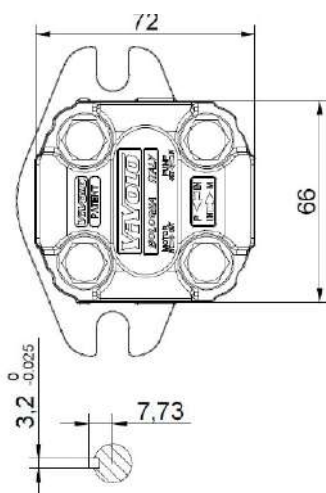


Group 1 Pump SAE AA Mount, 1/2" Keyed Shaft

Part #	List Price \$	CC	Maximum Pressure (bar)		Max/Min Speed (RPM)	Port S	Port P	Dimension (mm)		
			Working	Peak				A	B	C
X1P1662BBBA	403.00	0.9	240	280	6000/700	3/8" BSPP	3/8" BSPP	82.6	41.8	70.6
X1P1762BBBA	403.00	1.2	250	290	6000/700	3/8" BSPP	3/8" BSPP	83.5	42.3	71.5
X1P1862BBBA	403.00	1.7	250	290	6000/700	3/8" BSPP	3/8" BSPP	85.0	43.0	73.0
X1P2062BBBA	403.00	2.2	250	290	6000/700	3/8" BSPP	3/8" BSPP	87.0	44.0	75.0
X1P2162BBBA	403.00	2.6	250	300	6000/700	3/8" BSPP	3/8" BSPP	89.0	45.0	77.0
X1P2362BCBA	403.00	3.2	250	300	6000/700	1/2" BSPP	3/8" BSPP	91.0	46.5	79.0
X1P2562BCBA	403.00	3.8	250	300	6000/700	1/2" BSPP	3/8" BSPP	93.0	47.0	81.0
X1P2762BCBA	403.00	4.3	250	300	6000/700	1/2" BSPP	3/8" BSPP	95.0	48.0	83.0
X1P2962BCBA	430.00	4.9	250	300	6000/700	1/2" BSPP	3/8" BSPP	98.0	49.5	86.0
X1P3162BCBA	430.00	5.9	250	300	5000/700	1/2" BSPP	3/8" BSPP	101.5	51.3	89.5
X1P3262BCBA	430.00	6.5	250	300	5000/700	1/2" BSPP	3/8" BSPP	105.0	52.5	93.0
X1P3462BCBA	430.00	7.8	220	260	5000/700	1/2" BSPP	3/8" BSPP	108.0	54.5	96.0
X1P3662BCBA	430.00	9.8	190	230	4000/700	1/2" BSPP	3/8" BSPP	117.0	59.0	105.0

Group 1 Pump Seal Kit

Part #	List Price \$	Material
8KGX1P2.A	39.00	NBR
8KGX1P2.V	137.00	Viton



Group 1 Pump BH Mount, Tang Drive Shaft (CCW Standard)

Part #	List Price \$	CC	Maximum Pressure (bar)		Max/Min Speed (RPM)	Port S	Port P	Dimension (mm)		
			Working	Peak				A	B	C
NEW X1P1641DBBA	403.00	0.9	240	280	6000/700	3/8" BSPP	3/8" BSPP	82.6	41.8	70.6
NEW X1P1741DBBA	403.00	1.2	250	290	6000/700	3/8" BSPP	3/8" BSPP	83.5	42.3	71.5
NEW X1P1841DBBA	403.00	1.7	250	290	6000/700	3/8" BSPP	3/8" BSPP	85.0	43.0	73.0
NEW X1P2041DBBA	403.00	2.2	250	290	6000/700	3/8" BSPP	3/8" BSPP	87.0	44.0	75.0
NEW X1P2141DBBA	403.00	2.6	250	300	6000/700	3/8" BSPP	3/8" BSPP	89.0	45.0	77.0
NEW X1P2341DCBA	403.00	3.2	250	300	6000/700	1/2" BSPP	3/8" BSPP	91.0	46.5	79.0
NEW X1P2541DCBA	403.00	3.6	250	300	6000/700	1/2" BSPP	3/8" BSPP	93.0	47.0	81.0
NEW X1P2741DCBA	403.00	4.3	250	300	6000/700	1/2" BSPP	3/8" BSPP	95.0	48.0	83.0
NEW X1P2941DCBA	430.00	4.9	250	300	6000/700	1/2" BSPP	3/8" BSPP	98.0	49.5	86.0
NEW X1P3141DCBA	430.00	5.9	250	300	5000/700	1/2" BSPP	3/8" BSPP	101.5	51.3	89.5
NEW X1P3241DCBA	430.00	6.5	250	300	5000/700	1/2" BSPP	3/8" BSPP	105.0	52.5	93.0
NEW X1P3441DCBA	430.00	7.8	220	260	5000/700	1/2" BSPP	3/8" BSPP	108.0	54.5	96.0
NEW X1P3641DCBA	430.00	9.8	190	230	4000/700	1/2" BSPP	3/8" BSPP	117.0	59.0	105.0



41/42 Flange



43 Flange



44 Flange

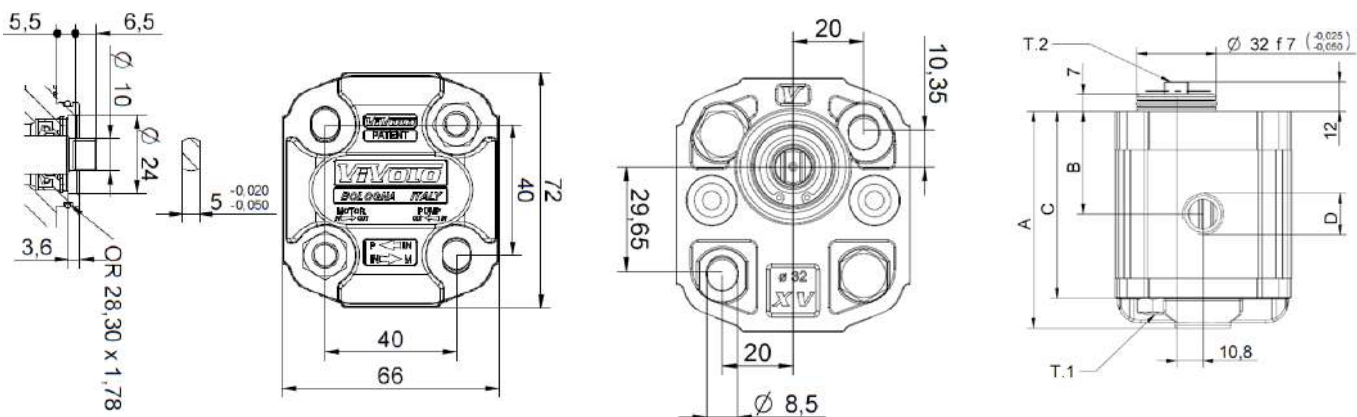
* See nomenclature chart on page 93 for flange codings

Group 1 Pump Seal Kit

Part #	List Price \$	Material
8KGX1P2.A	39.00	NBR
8KGX1P2.V	137.00	Viton

Available as standard
CCW rotation or CW

Available with relief
valves, tandem pumps



Suitable for Hydraulics Network DC & AC Power Units - see order code for centre block port covers (page 93)

ORDER CODES FOR VIVOIL GROUP 2 PUMPS

Series	Group	Pump	Displacement	Flange	Shaft	Inlet Port	Outlet Port	Rear Cover
X	2	P	51	02	E	C	B	A

DISPLACEMENT	
4.2cc	41
6.0cc	43
8.4cc	45
10.8cc	47
14.4cc	49
16.8cc	51
19.2cc	53
22.8cc	55
26.2cc	57
30.0cc	59
34.2cc	61
39.6cc	63

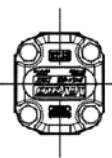
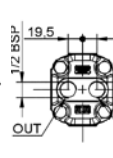
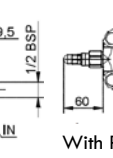
PORTS	INLET	OUTLET
4.2cc	B	B
6.0cc	B	B
8.4cc	C	B
10.8cc	C	B
14.4cc	C	B
16.8cc	D	C
19.2cc	D	C
22.8cc	D	C
26.2cc	D	C
30.0cc	D	C
34.2cc	D	C
39.6cc	D	C

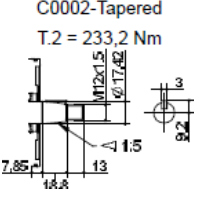
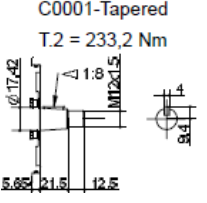
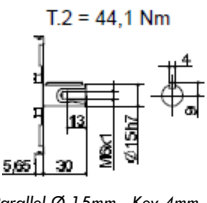
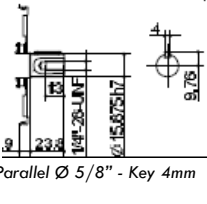
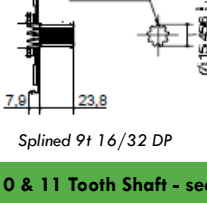
B = 1/2" BSPP

C = 3/4" BSPP

D = 1" BSPP

	FLANGE	
	LEFT ROTATION	RIGHT ROTATION
 DIN Group 2	01	02
 SAE-A	51	52
 Standardised	41	42
 Ø50 HY German Standardised (highlighted mounting hole)	21	22
 Ø50 BH German Standardised (highlighted mounting hole)	11	12

REAR COVER		
		
With Relief Valve		
A	D	N-O1 10-105 bar
		N-O2 70-210 bar
		N-O3 140-350 bar
RELIEF VALVE & PRIORITY HEAD OPTIONS ON NEXT PAGE		

SHAFT	
 C0002-Tapered T.2 = 233,2 Nm Tapered 1:5 Ø 17.4mm M12x1.5 - Key 3mm GERMAN STANDARDIZED ONLY	F
 C0001-Tapered T.2 = 233,2 Nm Tapered 1:8 Ø 17.2mm M12x1.5 - Key 4mm	E
 CI001-Parallel T.2 = 44,1 Nm Parallel Ø 15mm - Key 4mm	A
 CI002-Parallel T.2 = 67,5 Nm Parallel Ø 5/8" - Key 4mm	B
 SCF04-Splined T.2 = 104,6 Nm SAE J-498 9T 16/32 DP Splined 9T 16/32 DP	I
10 & 11 Tooth Shaft - see page 103	

Please note:

Additional costs apply for
non-standard options

Group 2 Pump Rear Cover with Integrated Relief Valve



Part #	List Price \$	Maximum Flow Rate	Relief Range	
			Minimum	Maximum
N-01	380.00	50 lpm	10 bar	105 bar
N-02	380.00	50 lpm	70 bar	210 bar
N-03	380.00	50 lpm	140 bar	350 bar

Please Note:

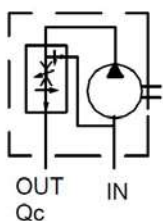
Pricing for rear cover with integrated relief valve and rear cover with priority head is in addition to standard pump price.



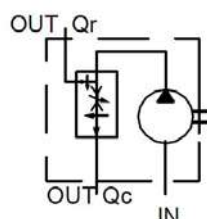
Priority Head Internal Excess Flow



Rear Cover Part #	List Price \$	QC Port	Flow Adjustment	
			Minimum	Maximum
CB62	635.00	3/8" BSPP	3 lpm	6 lpm
CB58	635.00	3/8" BSPP	6 lpm	11 lpm
CB63	635.00	3/8" BSPP	8 lpm	16 lpm
CB64	635.00	3/8" BSPP	13 lpm	25 lpm
CB70	635.00	3/8" BSPP	25 lpm	45 lpm



CB



CA

Qc = ADJUSTABLE CONSTANT FLOW

Qc = ADJUSTABLE CONSTANT FLOW
Qr = EXCEEDING FLOW



Priority Head Internal Excess Flow



Rear Cover Part #	List Price \$	QC/QR Ports	Flow Adjustment	
			Minimum	Maximum
CA62	660.00	3/8" BSPP	3 lpm	6 lpm
CA58	660.00	3/8" BSPP	6 lpm	11 lpm
CA63	660.00	3/8" BSPP	8 lpm	16 lpm
CA64	660.00	3/8" BSPP	13 lpm	25 lpm
CA70	660.00	3/8" BSPP	25 lpm	45 lpm

Group 2 Pump DIN Mount, 1:8 Tapered Shaft

Part #	List Price \$	CC	Maximum Pressure (bar)		Max/Min Speed (RPM)	Port S	Port P	Dimension (mm)		
			Working	Peak				A	B	C
X2P4102EBBA	538.00	4.2	260	300	3500/700	1/2" BSPP	1/2" BSPP	87.2	41.7	77.2
X2P4302EBBA	538.00	6	260	300	3500/700	1/2" BSPP	1/2" BSPP	90.2	43.2	80.2
X2P4502ECBA	538.00	8.4	260	300	3500/700	3/4" BSPP	1/2" BSPP	94.2	45.2	84.2
X2P4702ECBA	556.00	10.8	260	300	3500/700	3/4" BSPP	1/2" BSPP	98.2	47.2	88.2
X2P4902ECBA	556.00	14.4	250	290	3500/700	3/4" BSPP	1/2" BSPP	104.2	50.2	94.2
X2P5102EDCA	556.00	16.8	230	270	3500/700	1" BSPP	3/4" BSPP	108.2	52.2	98.2
X2P5302EDCA	567.00	19.2	210	250	3000/700	1" BSPP	3/4" BSPP	112.2	54.2	102.2
X2P5502EDCA	567.00	22.8	200	240	3000/700	1" BSPP	3/4" BSPP	118.2	57.2	108.2
X2P5702EDCA	567.00	26.2	170	210	3000/700	1" BSPP	3/4" BSPP	122.2	59.2	112.2
X2P5902EDCA	635.00	30	160	200	2500/700	1" BSPP	3/4" BSPP	130.2	63.2	120.2
X2P6102EDCA	635.00	34.2	150	190	2500/700	1" BSPP	3/4" BSPP	137.2	66.7	127.2
X2P6302EDCA	635.00	39.6	140	180	2000/700	1" BSPP	3/4" BSPP	146.2	71.2	136.2

Group 2 Pump Seal Kit

Part #	List Price \$	Material
8KGX2P1.A	75.00	NBR
8KGX2P1.V	149.00	Viton

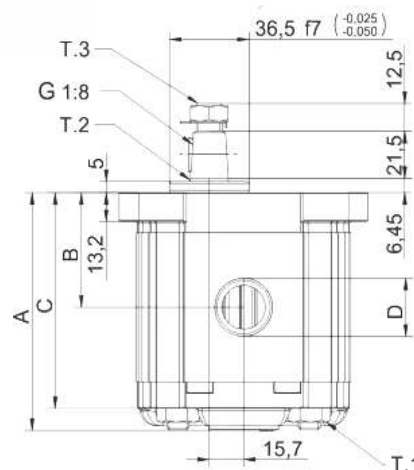
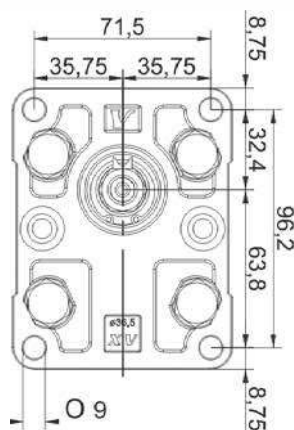
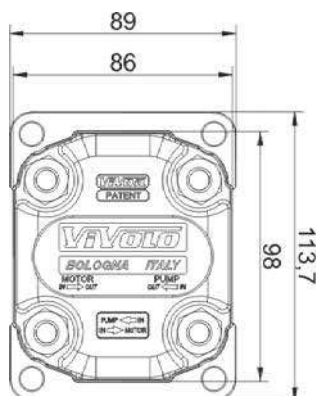
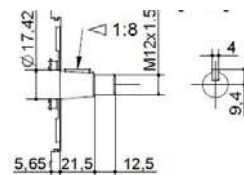
Available as standard
CW rotation or CCW

Available with relief
valves, tandem pumps

Available with SAE A-2
bolt, keyed or spline shaft

Rear-ported available

Priority Heads now
available, see page 99



Group 2 Pump Standard German Mount, 1:5 Tapered Shaft

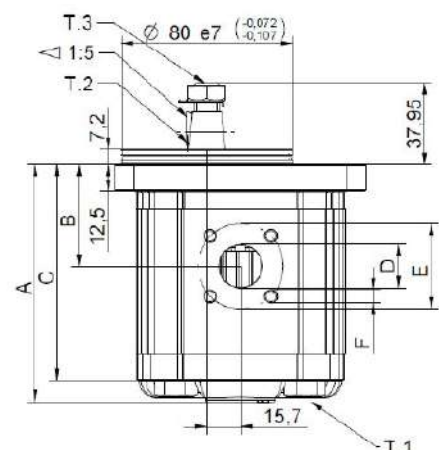
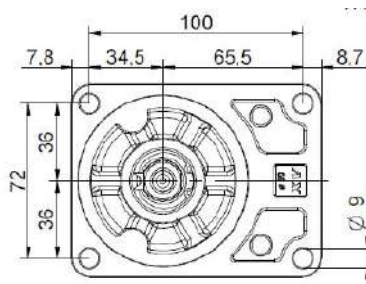
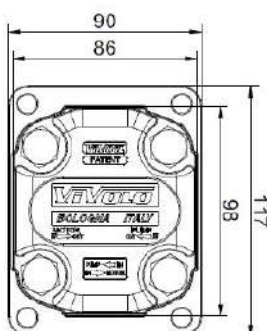
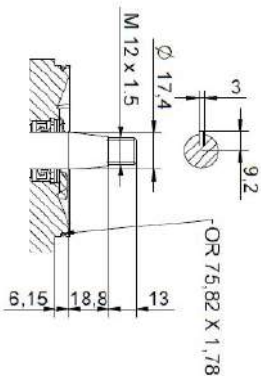


Part #	List Price \$	CC	Maximum Pressure (bar)		Max/Min Speed (RPM)	Port S	Port P	Dimension (mm)		
			Working	Peak				A	B	C
X2P4142FBBA	637.00	4.2	260	300	3500/700	1/2" BSPP	1/2" BSPP	89.7	41.1	79.7
X2P4342FBBA	637.00	6	260	300	3500/700	1/2" BSPP	1/2" BSPP	92.7	41.1	82.7
X2P4542FCBA	637.00	8.4	260	300	3500/700	3/4" BSPP	1/2" BSPP	96.7	43.1	86.7
X2P4742FCBA	655.00	10.8	260	300	3500/700	3/4" BSPP	1/2" BSPP	100.7	47.5	90.7
X2P4942FCBA	655.00	14.4	250	290	3500/700	3/4" BSPP	1/2" BSPP	106.7	47.5	96.7
X2P5142FDCA	655.00	16.8	230	270	3500/700	1" BSPP	3/4" BSPP	110.7	47.5	100.7
X2P5342FDCA	665.00	19.2	210	250	3000/700	1" BSPP	3/4" BSPP	114.7	47.5	104.7
X2P5542FDCA	665.00	22.8	200	240	3000/700	1" BSPP	3/4" BSPP	120.7	55	110.7
X2P5742FDCA	665.00	26.2	170	210	3000/700	1" BSPP	3/4" BSPP	124.7	55	114.7
X2P5942FDCA	734.00	30	160	200	2500/700	1" BSPP	3/4" BSPP	132.7	63.2	122.7
X2P6142FDCA	734.00	34.2	150	190	2500/700	1" BSPP	3/4" BSPP	139.7	63.2	129.7
X2P6342FDCA	734.00	39.6	140	180	2500/700	1" BSPP	3/4" BSPP	148.7	63.2	138.7



Available as standard
CW rotation or CCW

Priority Heads now
available, see page 99



Group 2 Pump SAE A Mount, 5/8" Keyed Shaft



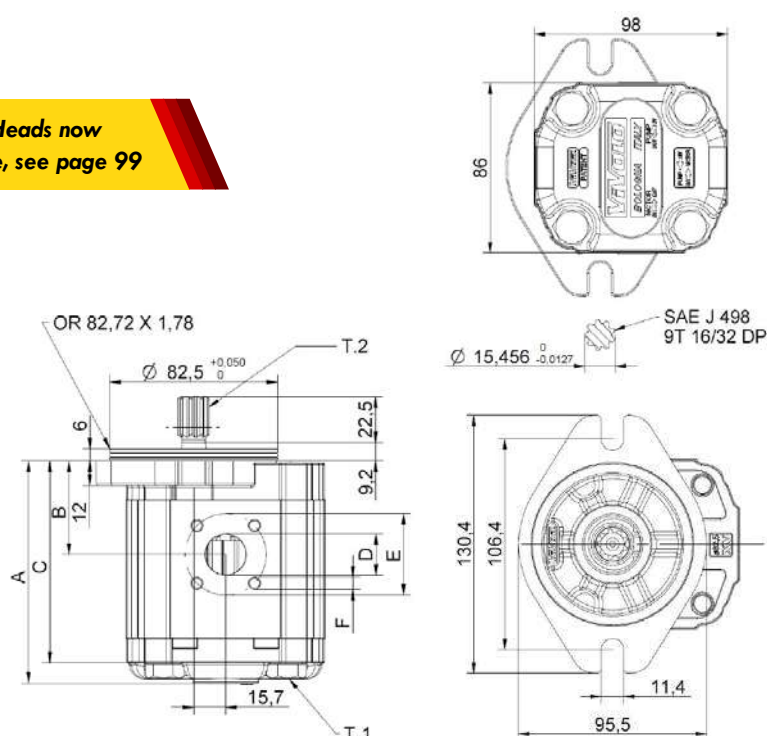
Part #	List Price \$	CC	Maximum Pressure (bar)		Max/Min Speed (RPM)	Port S	Port P	Dimension (mm)		
			Working	Peak				A	B	C
X2P4152BBBA	538.00	4.2	260	300	3500/700	1/2" BSPP	1/2" BSPP	88.0	39.4	78.0
X2P4352BBBA	538.00	6	260	300	3500/700	1/2" BSPP	1/2" BSPP	91.0	39.4	81.0
X2P4552BCBA	538.00	8.4	260	300	3500/700	3/4" BSPP	1/2" BSPP	95.0	41.4	85.0
X2P4752BCBA	556.00	10.8	260	300	3500/700	3/4" BSPP	1/2" BSPP	99.0	45.8	89.0
X2P4952BCBA	556.00	14.4	250	290	3500/700	3/4" BSPP	1/2" BSPP	105.0	45.8	95.0
X2P5152BDCA	556.00	16.8	230	270	3500/700	1" BSPP	3/4" BSPP	109.0	45.8	99.0
X2P5352BDCA	567.00	19.2	210	250	3000/700	1" BSPP	3/4" BSPP	113.0	45.8	103.0
X2P5552BDCA	567.00	22.8	200	240	3000/700	1" BSPP	3/4" BSPP	119.0	53.3	109.0
X2P5752BDCA	567.00	26.2	170	210	3000/700	1" BSPP	3/4" BSPP	123.0	53.3	113.0
X2P5952BDCA	635.00	30	160	200	2500/700	1" BSPP	3/4" BSPP	131.0	61.5	121.0
X2P6152BDCA	635.00	34.2	150	190	2500/700	1" BSPP	3/4" BSPP	138.0	61.5	128.0
X2P6352BDCA	635.00	39.6	140	180	2000/700	1" BSPP	3/4" BSPP	147.0	61.5	137.0

Group 2 Pump SAE A Mount, 5/8" 9 Tooth Splined Shaft



Part #	List Price \$	CC	Maximum Pressure (bar)		Max/Min Speed (RPM)	Port S	Port P	Dimension (mm)		
			Working	Peak				A	B	C
X2P4152IBBA	538.00	4.2	260	300	3500/700	1/2" BSPP	1/2" BSPP	88.0	39.4	78.0
X2P4352IBBA	538.00	6	260	300	3500/700	1/2" BSPP	1/2" BSPP	91.0	39.4	81.0
X2P4552ICBA	538.00	8.4	260	300	3500/700	3/4" BSPP	1/2" BSPP	95.0	41.4	85.0
X2P4752ICBA	556.00	10.8	260	300	3500/700	3/4" BSPP	1/2" BSPP	99.0	45.8	89.0
X2P4952ICBA	556.00	14.4	250	290	3500/700	3/4" BSPP	1/2" BSPP	105.0	45.8	95.0
X2P5152IDCA	556.00	16.8	230	270	3500/700	1" BSPP	3/4" BSPP	109.0	45.8	99.0
X2P5352IDCA	567.00	19.2	210	250	3000/700	1" BSPP	3/4" BSPP	113.0	45.8	103.0
X2P5552IDCA	567.00	22.8	200	240	3000/700	1" BSPP	3/4" BSPP	119.0	53.3	109.0
X2P5752IDCA	567.00	26.2	170	210	3000/700	1" BSPP	3/4" BSPP	123.0	53.3	113.0
X2P5952IDCA	635.00	30	160	200	2500/700	1" BSPP	3/4" BSPP	131.0	61.5	121.0
X2P6152IDCA	635.00	34.2	150	190	2500/700	1" BSPP	3/4" BSPP	138.0	61.5	128.0
X2P6352IDCA	635.00	39.6	140	180	2000/700	1" BSPP	3/4" BSPP	147.0	61.5	137.0

Priority Heads now available, see page 99



Group 2 Pump SAE A Mount, 10 Tooth Shaft (Cast Iron End Plates)



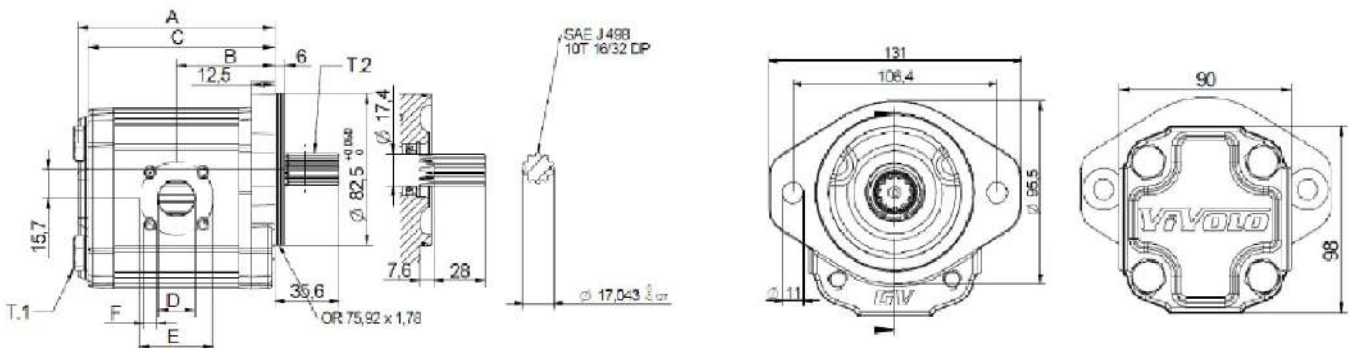
Part #	List Price \$	CC	Maximum Pressure (bar)		Max/Min Speed (RPM)	Port S	Port P	Dimension (mm)		
			Working	Peak				A	B	C
G2P5152RDCA	812.00	16.8	230	230	700/3500	1" BSPP	3/4" BSPP	107.0	53	101.0
G2P5552RDCA	843.00	22.8	200	220	700/3000	1" BSPP	3/4" BSPP	117.0	58	111.0
G2P5752RDCA	843.00	26.2	170	190	700/3000	1" BSPP	3/4" BSPP	121.0	60	115.0
G2P5952RDCA	892.00	30	160	180	700/2500	1" BSPP	3/4" BSPP	129.0	64	123.0
G2P6152RDCA	892.00	34.2	150	170	700/2500	1" BSPP	3/4" BSPP	136.0	67.5	130.0

Group 2 Pump SAE A Mount, 11 Tooth Shaft (Cast Iron End Plates)

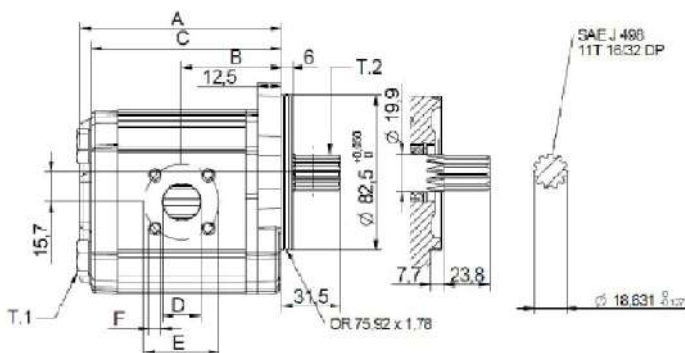


Part #	List Price \$	CC	Maximum Pressure (bar)		Max/Min Speed (RPM)	Port S	Port P	Dimension (mm)		
			Working	Peak				A	B	C
G2P4152SBBA	778.00	4.2	260	300	700/3500	1/2" BSPP	1/2" BSPP	86.0	42.5	80.0
G2P4352SCBA	778.00	6	260	300	700/3500	3/4" BSPP	1/2" BSPP	89.0	44	83.0
G2P4552SCBA	778.00	8.4	260	300	700/3500	3/4" BSPP	1/2" BSPP	93.0	46	87.0
G2P4752SCBA	778.00	10.8	260	300	700/3500	3/4" BSPP	1/2" BSPP	97.0	48	91.0
G2P4952SCBA	812.00	14.4	250	290	700/3500	3/4" BSPP	1/2" BSPP	103.0	51	97.0
G2P5152SCBA	812.00	16.8	230	270	700/3500	3/4" BSPP	1/2" BSPP	107.0	53	101.0
G2P5352SDCA	843.00	19.2	210	250	700/3000	1" BSPP	3/4" BSPP	111.0	55	105.0
G2P5552SDCA	843.00	22.8	200	240	700/3000	1" BSPP	3/4" BSPP	117.0	58	111.0
G2P5752SDCA	843.00	26.2	170	210	700/3000	1" BSPP	3/4" BSPP	121.0	60	115.0

10 Tooth



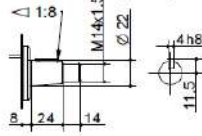
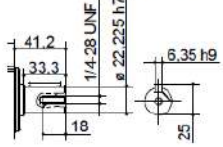
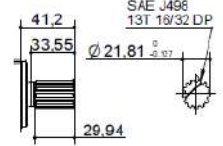
11 Tooth



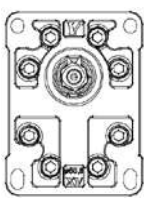
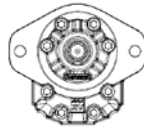
ORDER CODES FOR VIVOIL GROUP 3 PUMPS

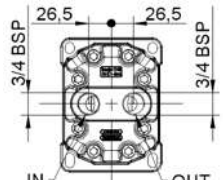
Series	Group	Pump	Displacement	Flange	Shaft	Inlet Port	Outlet Port	Rear Cover
X	3	P	66	32	I	D	D	A

DISPLACEMENT	
14.9cc	66
17.4cc	68
21.1cc	70
27.0cc	72
32.3cc	74
38.5cc	78
43.4cc	79
47.2cc	80
50.9cc	81
54.6cc	82
60.8cc	83
64.5cc	85
70.7cc	86
74.5cc	87
86.9cc	89

SHAFT	
CO001 - Tapered T.2 = 482 [Nm]  Tapered 1:8 Ø 22mm M14x1.5 - Key 4mm	A
CI004 - Parallel T.2 = 180 [Nm]  Parallel Ø 7/8" - Key 6.35mm	H
SCF04 - Splined T.2 = 264 [Nm]  Splined 7/8" 13t	I

PORTS	INLET	OUTLET
14.9cc	D	D
17.4cc	E	D
21.1cc	E	D
27.0cc	E	D
32.3cc	E	D
38.5cc	E	D
43.4cc	F	E
47.2cc	F	E
50.9cc	F	E
54.6cc	F	E
60.8cc	F	E
64.5cc	F	E
70.7cc	F	E
74.5cc	F	F
86.9cc	F	F
D = 3/4" BSPP		
E = 1" BSPP		
F = 1.1/4" BSPP		

	FLANGE	
	LEFT ROTATION	RIGHT ROTATION
 DIN Group 3	01	02
 SAE-B	31	32

REAR COVER	
	A
	D

Please note:
Additional costs apply for non-standard options

Group 3 Pump DIN Mount, 1:8 Tapered Shaft

Part #	List Price \$	CC	Maximum Pressure (bar)		Max/Min Speed (RPM)	Port S	Port P	Dimension (mm)	
			Working	Peak				A	B
X3P6602ADDA	1117.00	14.9	300	320	3000/700	3/4" BSPP	3/4" BSPP	124.0	61.0
X3P6802AEDA	1117.00	17.4	300	320	3000/700	1" BSPP	3/4" BSPP	126.0	62.0
X3P7002AEDA	1117.00	21.1	280	300	3000/700	1" BSPP	3/4" BSPP	129.0	63.5
X3P7202AEDA	1117.00	27	250	270	3000/700	1" BSPP	3/4" BSPP	133.0	65.5
X3P7402AEDA	1117.00	32.3	250	270	3000/700	1" BSPP	3/4" BSPP	138.0	68.0
X3P7802AEDA	1190.00	38.5	250	270	2800/700	1" BSPP	3/4" BSPP	143.0	70.5
X3P7902AFEA	1190.00	43.4	250	270	2800/700	1.1/4" BSPP	1" BSPP	147.0	72.5
X3P8002AFEA	1190.00	47.2	230	250	2800/700	1.1/4" BSPP	1" BSPP	150.0	74.0
X3P8102AFEA	1246.00	50.9	230	250	2800/700	1.1/4" BSPP	1" BSPP	153.0	75.5
X3P8202AFEA	1246.00	54.6	230	250	2300/700	1.1/4" BSPP	1" BSPP	156.0	77.0
X3P8302AFEA	1246.00	60.8	230	250	2300/700	1.1/4" BSPP	1" BSPP	161.0	79.5
X3P8502AFEA	1246.00	64.5	210	230	2300/700	1.1/4" BSPP	1" BSPP	164.0	81.0
X3P8602AFEA	1304.00	70.7	200	220	2300/700	1.1/4" BSPP	1" BSPP	169.0	83.5
X3P8702AFFA	1304.00	74.5	180	200	2300/700	1.1/4" BSPP	1.1/4" BSPP	172.0	85.0
X3P8902AFFA	1326.00	86.9	150	170	2300/700	1.1/4" BSPP	1.1/4" BSPP	182.0	90.0

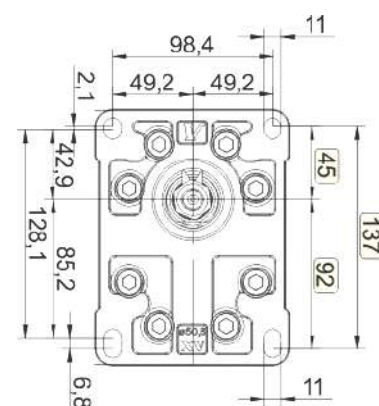
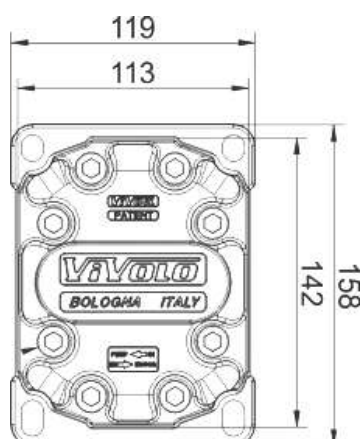
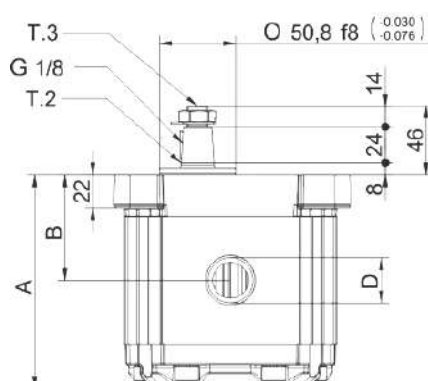
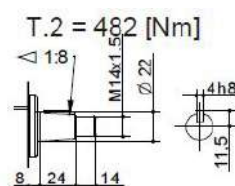


Group 3 Pump Seal Kit

Part #	List Price \$	Material
8KGX3P1.A	129.00	NBR
8KGX3P1.V	257.00	Viton

Available as standard
CW rotation or CCW

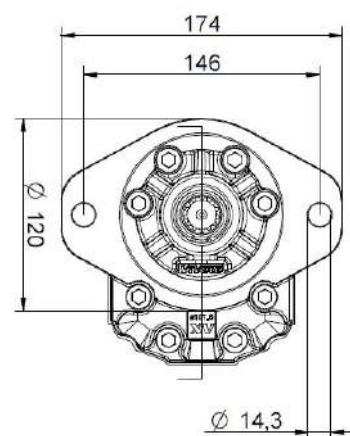
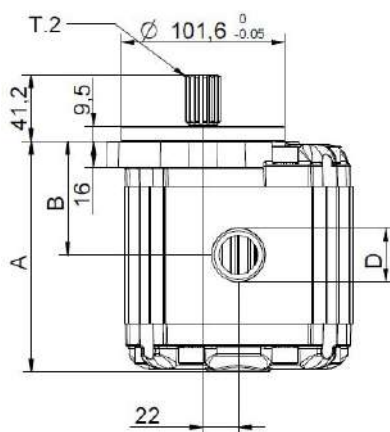
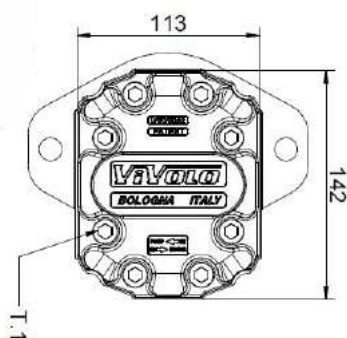
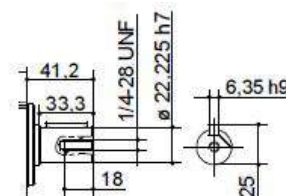
Available with SAE A-2
bolt, keyed or spline shaft



Group 3 Pump SAE B Mount, 7/8" Keyed Shaft

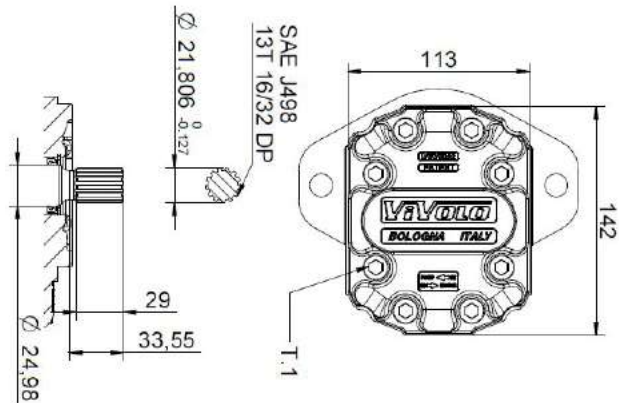
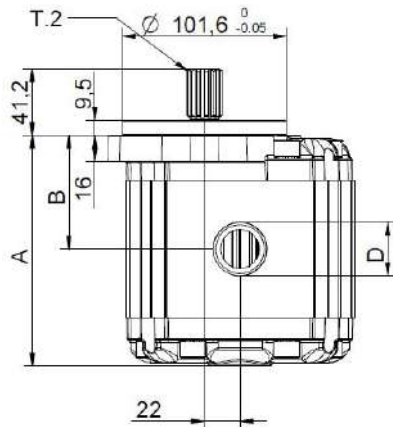
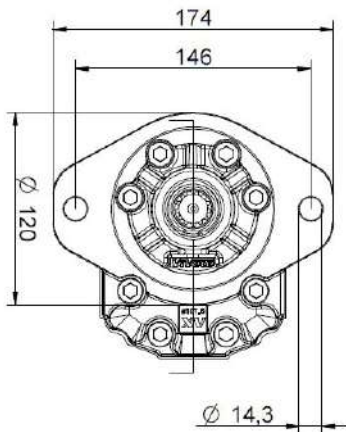


Part #	List Price \$	CC	Maximum Pressure (bar)		Max/Min Speed (RPM)	Port S	Port P	Dimension (mm)	
			Working	Peak				A	B
X3P7032HEDA	1117.00	21.1	280	300	3000/700	1" BSPP	3/4" BSPP	129.0	63.5
X3P7232HEDA	1117.00	27.0	250	270	3000/700	1" BSPP	3/4" BSPP	133.0	65.5
X3P7432HEDA	1117.00	32.3	250	270	3000/700	1" BSPP	3/4" BSPP	138.0	68.0
X3P7832HEDA	1190.00	38.5	250	270	2800/700	1" BSPP	3/4" BSPP	143.0	70.5
X3P7932HFEA	1190.00	43.4	250	270	2800/700	1.1/4" BSPP	1" BSPP	147.0	72.5
X3P8032HFEA	1190.00	47.2	230	250	2800/700	1.1/4" BSPP	1" BSPP	150.0	74.0
X3P8132HFEA	1246.00	50.9	230	250	2800/700	1.1/4" BSPP	1" BSPP	153.0	75.5
X3P8232HFEA	1246.00	54.6	230	250	2300/700	1.1/4" BSPP	1" BSPP	156.0	77.0
X3P8332HFEA	1246.00	60.8	230	250	2300/700	1.1/4" BSPP	1" BSPP	161.0	79.5
X3P8532HFEA	1246.00	64.5	210	230	2300/700	1.1/4" BSPP	1" BSPP	164.0	81.0
X3P8732HFFA	1304.00	74.5	180	200	2300/700	1.1/4" BSPP	1.1/4" BSPP	172.0	85.0



Group 3 Pump SAE B Mount, 7/8" 13 Tooth Splined Shaft

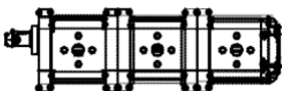
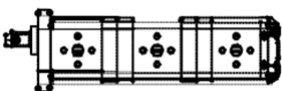
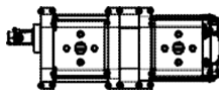
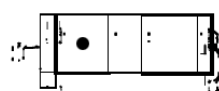
Part #	List Price \$	CC	Maximum Pressure (bar)		Max/Min Speed (RPM)	Port S	Port P	Dimension (mm)	
			Working	Peak				A	B
X3P6632IDDA	1117.00	14.9	300	320	3000/700	3/4" BSPP	3/4" BSPP	124.0	61.0
X3P6832IEDA	1117.00	17.4	300	320	3000/700	1" BSPP	3/4" BSPP	126.0	62.0
X3P7032IEDA	1117.00	21.1	280	300	3000/700	1" BSPP	3/4" BSPP	129.0	63.5
X3P7232IEDA	1117.00	27	250	270	3000/700	1" BSPP	3/4" BSPP	133.0	65.5
X3P7432IEDA	1117.00	32.3	250	270	3000/700	1" BSPP	3/4" BSPP	138.0	68.0
X3P7832IEDA	1190.00	38.5	250	270	2800/700	1" BSPP	3/4" BSPP	143.0	70.5
X3P7932IFEA	1190.00	43.4	250	270	2800/700	1.1/4" BSPP	1" BSPP	147.0	72.5
X3P8032IFEA	1190.00	47.2	230	250	2800/700	1.1/4" BSPP	1" BSPP	150.0	74.0
X3P8132IFEA	1246.00	50.9	230	250	2800/700	1.1/4" BSPP	1" BSPP	153.0	75.5
X3P8232IFEA	1246.00	54.6	230	250	2300/700	1.1/4" BSPP	1" BSPP	156.0	77.0
X3P8332IFEA	1246.00	60.8	230	250	2300/700	1.1/4" BSPP	1" BSPP	161.0	79.5
X3P8532IFEA	1246.00	64.5	210	230	2300/700	1.1/4" BSPP	1" BSPP	164.0	81.0
X3P8632IFEA	1304.00	70.7	200	220	2300/700	1.1/4" BSPP	1" BSPP	169.0	83.5
X3P8732IFFA	1304.00	74.5	180	200	2300/700	1.1/4" BSPP	1.1/4" BSPP	172.0	85.0
X3P8932IFFA	1326.00	86.9	150	170	2300/700	1.1/4" BSPP	1.1/4" BSPP	182.0	90.0



ORDER CODES FOR VIVOIL MULTIPLE PUMPS

NEW Now with price indicators!

	Body Shape	No. of Elements	Flange/ Rotation	Shaft	Ports	Rear Cover	Displacement CCs			
9	M	2	02	E	G	A	16			

Body Shape		
M	Standard	
S	Shaped	
T	Separated Stages	
A	Single Inlet	

No. of Elements	Adaptor	List Price \$
2+	OP + OP	62.00
	1P + OP	305.00
	1P + 1P	75.00
	2P + 1P	127.00
	2P + OP	360.00
	2P + 2P	81.00
	3P + 1P	236.00
	3P + OP	435.00
	3P + 2P	227.00
	3P + 3P	208.00

Flange & Rotation				
DIN Flange		SAE Flange		Group
CW	CCW	CW	CCW	
02	01	n/a	n/a	Group 0
02	01	62	61	Group 1
02	01	52	51	Group 2
02	01	32	31	Group 3

Shaft		
A	Group 0	7mm Keyed
F	Group 1	DIN 1:8 Taper
E	Group 2	DIN 1:8 Taper
I		5/8" 9T Spline SAE A
B		5/8" Keyed SAE A
A	Group 3	DIN 1:8 Taper
H		7/8" Keyed SAE B
I		7/8" 13T Spline SAE B

Note: Other shafts available ex-Vivoil on request

Ports	
G	BSPP

* Others available ex-Vivoil on request

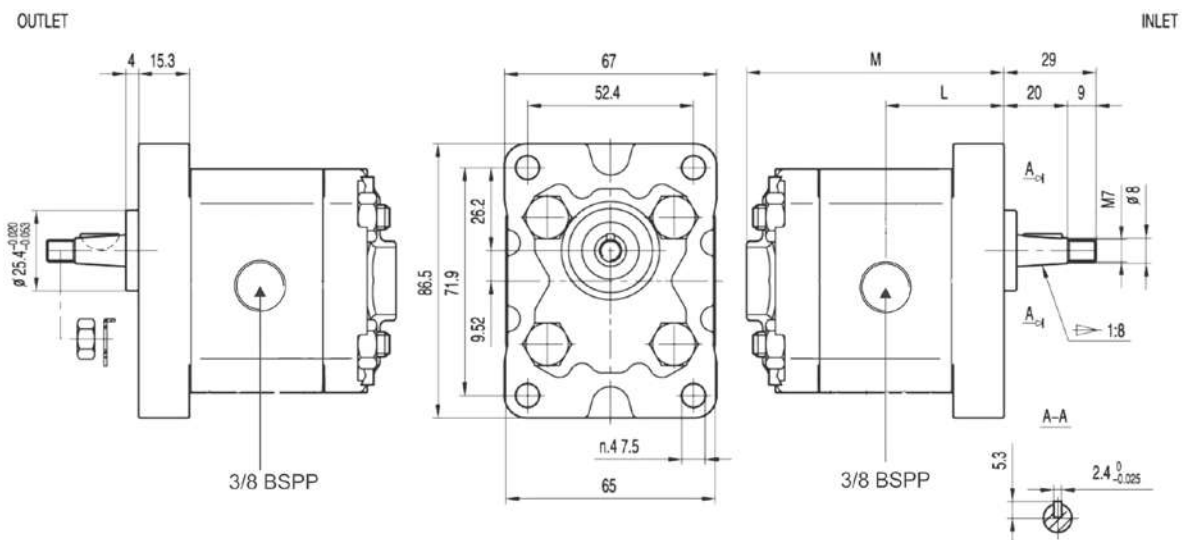


Rear Cover		List Price \$		
		Group 1	Group 2	Group 3
A	Standard blank cover	-	-	-
B	Rear suction port	146.00	154.00	370.00
C	Rear pressure port	146.00	154.00	370.00
D	Rear suction & pressure ports	146.00	154.00	370.00
O	Rear relief with internal drain	310.00	380.00	-

Displacement											
Group 0			Group 1			Group 2			Group 3		
Pump	List Price \$		Pump	List Price \$		Pump	List Price \$		Pump	List Price \$	
01	0.17cc	390.00	16	0.9cc	427.00	41	4.2cc	565.00	66	14.9cc	1172.00
02	0.25cc	390.00	17	1.2cc	427.00	43	6.0cc	565.00	68	17.4cc	1172.00
04	0.45cc	390.00	18	1.7cc	427.00	45	8.4cc	565.00	70	21.1cc	1172.00
05	0.57cc	390.00	20	2.2cc	427.00	47	10.8cc	565.00	72	27.0cc	1172.00
06	0.76cc	390.00	21	2.6cc	427.00	49	14.4cc	585.00	74	32.3cc	1172.00
07	0.98cc	390.00	23	3.2cc	427.00	51	16.8cc	585.00	78	38.5cc	1249.00
09	1.27cc	430.00	25	3.6cc	427.00	53	19.2cc	595.00	79	43.4cc	1249.00
11	1.52cc	430.00	27	4.3cc	427.00	55	22.8cc	595.00	80	47.2cc	1249.00
13	2.30cc	430.00	29	4.9cc	450.00	57	26.2cc	595.00	81	50.9cc	1308.00
			31	5.9cc	450.00	59	30.0cc	666.00	82	54.6cc	1308.00
			32	6.5cc	450.00	61	34.2cc	666.00	83	60.8cc	1308.00
			34	7.8cc	450.00	63	39.6cc	666.00	85	64.5cc	1308.00
			36	9.8cc	450.00				86	70.7cc	1369.00
									87	74.5cc	1369.00
									89	86.9cc	1369.00

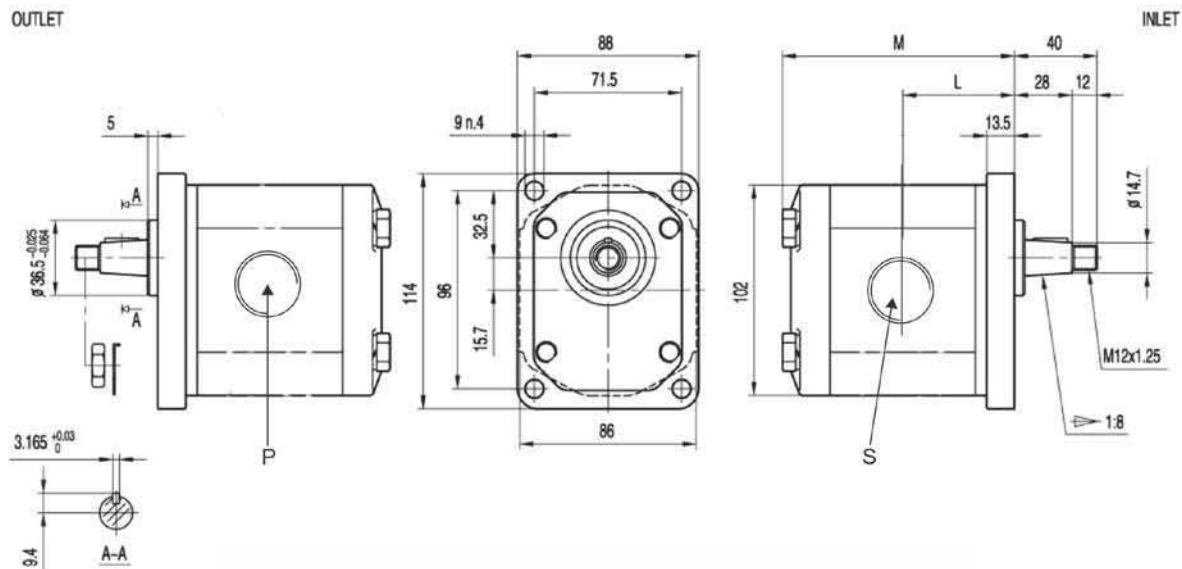
Group 1 Pump DIN Mount, 1:8 Tapered Shaft

Part #	List Price \$	CC	Pressure		Max/Min Speed (RPM)	Port P	Port S
			Rated	Maximum			
1APG-1.1-L46-Z02-R-SS	277.00	1.1	200 bar	250 bar	6000/600	3/8" BSPP	3/8" BSPP
1APG-1.6-L46-Z02-R-SS	277.00	1.6	200 bar	250 bar	6000/600	3/8" BSPP	3/8" BSPP
1APG-2.1-L46-Z02-R-SS	277.00	2.1	200 bar	250 bar	6000/600	3/8" BSPP	3/8" BSPP
1APG-2.7-L46-Z02-R-SS	277.00	2.7	200 bar	250 bar	6000/600	3/8" BSPP	3/8" BSPP
1APG-3.2-L46-Z02-R-SS	277.00	3.2	200 bar	250 bar	5000/600	3/8" BSPP	3/8" BSPP
1APG-3.7-L46-Z02-R-SS	277.00	3.7	200 bar	250 bar	4500/600	3/8" BSPP	3/8" BSPP
1APG-4.2-L46-Z02-R-SS	277.00	4.2	200 bar	250 bar	4000/600	3/8" BSPP	3/8" BSPP
1APG-4.8-L46-Z02-R-SS	277.00	4.8	160 bar	200 bar	3500/600	3/8" BSPP	3/8" BSPP
1APG-5.8-L46-Z02-R-SS	277.00	5.8	160 bar	200 bar	2900/600	3/8" BSPP	3/8" BSPP
1APG-8.0-L46-Z02-R-SS	277.00	8.0	160 bar	200 bar	2100/600	3/8" BSPP	3/8" BSPP



Group 2 Pump DIN Mount, 1:8 Tapered Shaft

Part #	List Price \$	CC	Pressure		Max/Min Speed (RPM)	Port P	Port S	Dimension (mm)	
			Rated	Maximum				M	L
2APG-4-L04-Z03-R-SS-K	386.00	4	175 bar	200 bar	3500/500	1/2" BSPP	1/2" BSPP	93.0	44.5
2APG-6-L04-Z03-R-SS-K	386.00	6	175 bar	200 bar	3500/500	1/2" BSPP	1/2" BSPP	96.0	46.0
2APG-8-L08-Z03-R-SS-K	386.00	8	175 bar	200 bar	3500/500	1/2" BSPP	3/4" BSPP	93.3	47.7
2APG-10-L08-Z03-R-SS-K	386.00	10	175 bar	200 bar	3500/500	1/2" BSPP	3/4" BSPP	102.6	49.3
2APG-12-L08-Z03-R-SS-K	386.00	12	175 bar	200 bar	3500/500	1/2" BSPP	3/4" BSPP	105.9	51.0
2APG-14-L08-Z03-R-SS-K	386.00	14	175 bar	200 bar	3500/500	1/2" BSPP	3/4" BSPP	109.3	52.7
2APG-16-L03-Z03-R-SS-K	386.00	16	175 bar	200 bar	3500/500	1/2" BSPP	3/4" BSPP	112.7	54.0
2APG-18-L03-Z03-R-SS-K	386.00	18	175 bar	200 bar	3500/500	3/4" BSPP	1" BSPP	116.0	56.0
2APG-20-L03-Z03-R-SS-K	409.00	20	175 bar	200 bar	3500/500	3/4" BSPP	1" BSPP	119.3	57.7
2APG-23-L03-Z03-R-SS-K	409.00	23	175 bar	200 bar	3000/500	3/4" BSPP	1" BSPP	122.6	59.3
2APG-25-L03-Z03-R-SS-K	409.00	25	175 bar	200 bar	3000/500	3/4" BSPP	1" BSPP	127.6	61.8
2APG-28-L03-Z03-R-SS-K	456.00	28	160 bar	200 bar	3000/500	3/4" BSPP	1" BSPP	132.6	64.3
2APG-30-L03-Z03-R-SS-K	456.00	30	160 bar	200 bar	3000/500	3/4" BSPP	1" BSPP	135.9	66.0

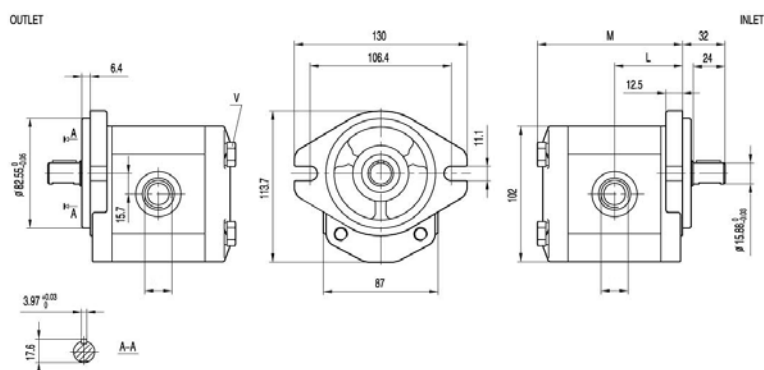


Group 2 Pump SAE A Mount, 5/8" Keyed Shaft

Part #	List Price \$	CC	Pressure		Max/Min Speed (RPM)	Port P	Port S
			Rated	Maximum			
2APG-4-L39-P02-R-SS-K	386.00	4	175 bar	200 bar	3500/500	7/8" UNO	1.1/16" UNO
2APG-6-L39-P02-R-SS-K	386.00	6	175 bar	200 bar	3500/500	7/8" UNO	1.1/16" UNO
2APG-8-L42-P02-R-SS-K	386.00	8	175 bar	200 bar	3500/500	1.1/16" UNO	1.5/16" UNO
2APG-10-L42-P02-R-SS-K	386.00	10	175 bar	200 bar	3500/500	1.1/16" UNO	1.5/16" UNO
2APG-12-L42-P02-R-SS-K	386.00	12	175 bar	200 bar	3500/500	1.1/16" UNO	1.5/16" UNO
2APG-14-L42-P02-R-SS-K	386.00	14	175 bar	200 bar	3500/500	1.1/16" UNO	1.5/16" UNO
2APG-16-L42-P02-R-SS-K	386.00	16	175 bar	200 bar	3500/500	1.1/16" UNO	1.5/16" UNO
2APG-18-L42-P02-R-SS-K	386.00	18	175 bar	200 bar	3500/500	1.1/16" UNO	1.5/16" UNO
2APG-20-L42-P02-R-SS-K	409.00	20	175 bar	200 bar	3500/500	1.1/16" UNO	1.5/16" UNO
2APG-23-L42-P02-R-SS-K	409.00	23	175 bar	200 bar	3000/500	1.1/16" UNO	1.5/16" UNO
2APG-25-L42-P02-R-SS-K	409.00	25	175 bar	200 bar	3000/500	1.1/16" UNO	1.5/16" UNO
2APG-28-L42-P02-R-SS-K	456.00	28	160 bar	200 bar	3000/500	1.1/16" UNO	1.5/16" UNO
2APG-30-L42-P02-R-SS-K	456.00	30	160 bar	200 bar	3000/500	1.1/16" UNO	1.5/16" UNO

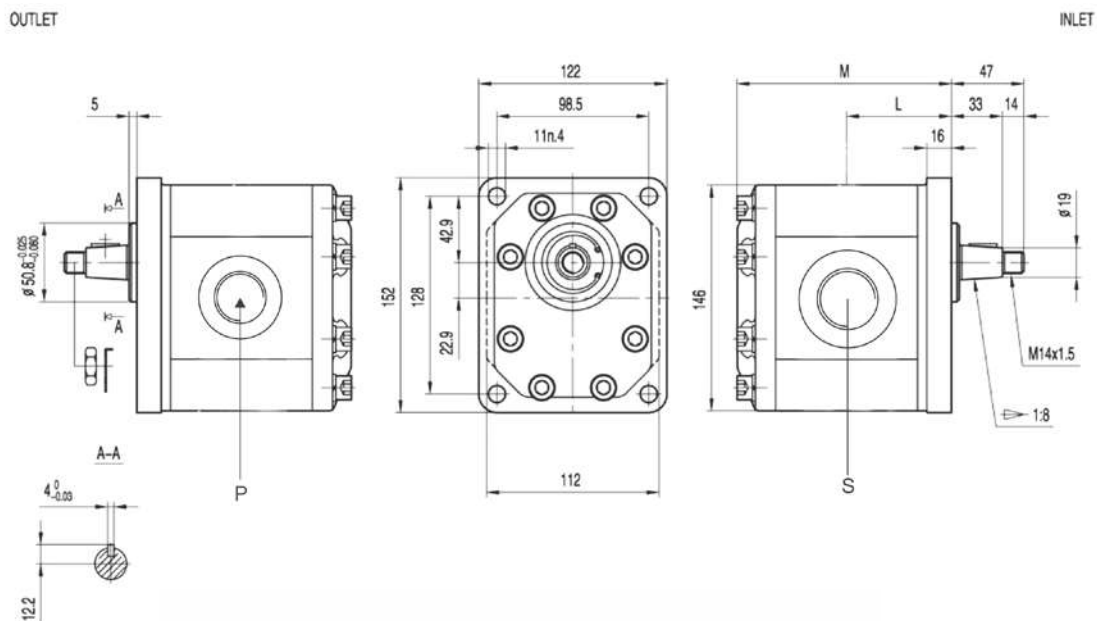
Group 2 Pump SAE A Mount, 5/8" 9 Tooth Spline Shaft

Part #	List Price \$	CC	Pressure		Max/Min Speed (RPM)	Port P	Port S
			Rated	Maximum			
2APG-4-L39-S03-R-SS-K	386.00	4	175 bar	200 bar	3500/500	7/8" UNO	1.1/16" UNO
2APG-6-L39-S03-R-SS-K	386.00	6	175 bar	200 bar	3500/500	7/8" UNO	1.1/16" UNO
2APG-8-L42-S03-R-SS-K	386.00	8	175 bar	200 bar	3500/500	1.1/16" UNO	1.5/16" UNO
2APG-10-L42-S03-R-SS-K	386.00	10	175 bar	200 bar	3500/500	1.1/16" UNO	1.5/16" UNO
2APG-12-L42-S03-R-SS-K	386.00	12	175 bar	200 bar	3500/500	1.1/16" UNO	1.5/16" UNO
2APG-14-L42-S03-R-SS-K	386.00	14	175 bar	200 bar	3500/500	1.1/16" UNO	1.5/16" UNO
2APG-16-L42-S03-R-SS-K	386.00	16	175 bar	200 bar	3500/500	1.1/16" UNO	1.5/16" UNO
2APG-18-L42-S03-R-SS-K	386.00	18	175 bar	200 bar	3500/500	1.1/16" UNO	1.5/16" UNO
2APG-20-L42-S03-R-SS-K	409.00	20	175 bar	200 bar	3500/500	1.1/16" UNO	1.5/16" UNO
2APG-23-L42-S03-R-SS-K	409.00	23	175 bar	200 bar	3000/500	1.1/16" UNO	1.5/16" UNO
2APG-25-L42-S03-R-SS-K	409.00	25	175 bar	200 bar	3000/500	1.1/16" UNO	1.5/16" UNO
2APG-28-L42-S03-R-SS-K	456.00	28	160 bar	200 bar	3000/500	1.1/16" UNO	1.5/16" UNO
2APG-30-L42-S03-R-SS-K	456.00	30	160 bar	200 bar	3000/500	1.1/16" UNO	1.5/16" UNO



Group 3 Pump DIN Mount, 1:8 Tapered Shaft

Part #	List Price \$	CC	Pressure		Max/Min Speed (RPM)	Port P	Port S	Dimension (mm)	
			Rated	Maximum				M	L
3APG-22-L69-Z05-R-SS-K	684.00	22	175 bar	200 bar	3000/400	3/4" BSPP	3/4" BSPP	128.5	65.5
3APG-26-L03-Z05-R-SS-K	684.00	26	175 bar	200 bar	3000/400	3/4" BSPP	1" BSPP	131.5	67.0
3APG-34-L03-Z05-R-SS-K	684.00	34	175 bar	200 bar	3000/400	3/4" BSPP	1" BSPP	137.0	69.8
3APG-39-L03-Z05-R-SS-K	684.00	39	175 bar	200 bar	3000/400	3/4" BSPP	1" BSPP	141.0	71.8
3APG-43-L11-Z05-R-SS-K	742.00	43	175 bar	200 bar	2800/400	1" BSPP	1.1/4" BSPP	143.5	73.0
3APG-51-L11-Z05-R-SS-K	742.00	51	175 bar	200 bar	2800/400	1" BSPP	1.1/4" BSPP	149.5	76.0
3APG-60-L11-Z05-R-SS-K	742.00	60	175 bar	200 bar	2800/400	1" BSPP	1.1/4" BSPP	156.0	79.3
3APG-70-L60-Z05-R-SS-K	800.00	70	175 bar	200 bar	2500/400	1.1/4" BSPP	1.1/2" BSPP	163.0	82.8
3APG-78-L60-Z05-R-SS-K	800.00	78	160 bar	200 bar	2300/400	1.1/4" BSPP	1.1/2" BSPP	171.0	85.0
3APG-89-L60-Z05-R-SS-K	800.00	89	140 bar	180 bar	2000/400	1.1/4" BSPP	1.1/2" BSPP	176.0	88.0



Group 3 Pump SAE B Mount, 7/8" Keyed Shaft

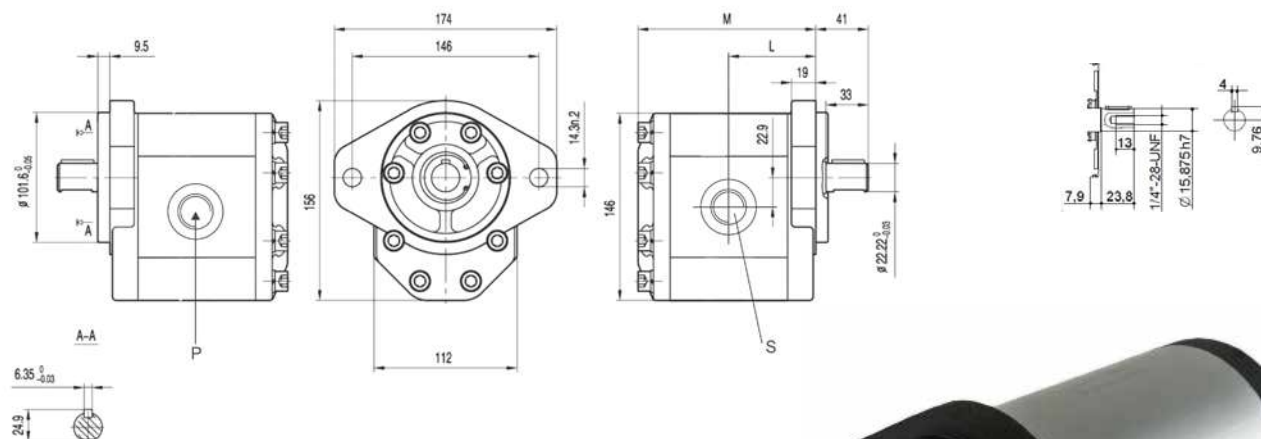
Part #	List Price \$	CC	Pressure		Max/Min Speed (RPM)	Port P	Port S
			Rated	Maximum			
3APG-22-L42-P16-R-SS-K	684.00	22	175 bar	200 bar	3000/400	1.1/16" UNO	1.5/16" UNO
3APG-26-L42-P16-R-SS-K	684.00	26	175 bar	200 bar	3000/400	1.1/16" UNO	1.5/16" UNO
3APG-34-L42-P16-R-SS-K	684.00	34	175 bar	200 bar	3000/400	1.1/16" UNO	1.5/16" UNO
3APG-39-L42-P16-R-SS-K	684.00	39	175 bar	200 bar	3000/400	1.1/16" UNO	1.5/16" UNO
3APG-43-L51-P16-R-SS-K	742.00	43	175 bar	200 bar	2800/400	1.1/16" UNO	1.5/8" UNO
3APG-51-L51-P16-R-SS-K	742.00	51	175 bar	200 bar	2800/400	1.1/16" UNO	1.5/8" UNO
3APG-60-L53-P16-R-SS-K	742.00	60	175 bar	200 bar	2800/400	1.5/16" UNO	1.5/8" UNO
3APG-70-L53-P16-R-SS-K	800.00	70	175 bar	200 bar	2500/400	1.5/16" UNO	1.5/8" UNO
3APG-78-L53-P16-R-SS-K	800.00	78	160 bar	200 bar	2300/400	1.5/16" UNO	1.5/8" UNO
3APG-89-L53-P16-R-SS-K	800.00	89	140 bar	180 bar	2000/400	1.5/16" UNO	1.5/8" UNO

Group 3 Pump SAE B Mount, 7/8" 13 Tooth Spline Shaft

Part #	List Price \$	CC	Pressure		Max/Min Speed (RPM)	Port P	Port S
			Rated	Maximum			
3APG-22-L42-S05-R-SS-K	684.00	22	175 bar	200 bar	3000/400	1.1/16" UNO	1.5/16" UNO
3APG-26-L42-S05-R-SS-K	684.00	26	175 bar	200 bar	3000/400	1.1/16" UNO	1.5/16" UNO
3APG-34-L42-S05-R-SS-K	684.00	34	175 bar	200 bar	3000/400	1.1/16" UNO	1.5/16" UNO
3APG-39-L42-S05-R-SS-K	684.00	39	175 bar	200 bar	3000/400	1.1/16" UNO	1.5/16" UNO
3APG-43-L51-S05-R-SS-K	742.00	43	175 bar	200 bar	2800/400	1.1/16" UNO	1.5/8" UNO
3APG-51-L51-S05-R-SS-K	742.00	51	175 bar	200 bar	2800/400	1.1/16" UNO	1.5/8" UNO
3APG-60-L53-S05-R-SS-K	742.00	60	175 bar	200 bar	2800/400	1.5/16" UNO	1.5/8" UNO
3APG-70-L53-S05-R-SS-K	800.00	70	175 bar	200 bar	2500/400	1.5/16" UNO	1.5/8" UNO
3APG-78-L53-S05-R-SS-K	800.00	78	160 bar	200 bar	2300/400	1.5/16" UNO	1.5/8" UNO
3APG-89-L53-S05-R-SS-K	800.00	89	140 bar	180 bar	2000/400	1.5/16" UNO	1.5/8" UNO

OUTLET

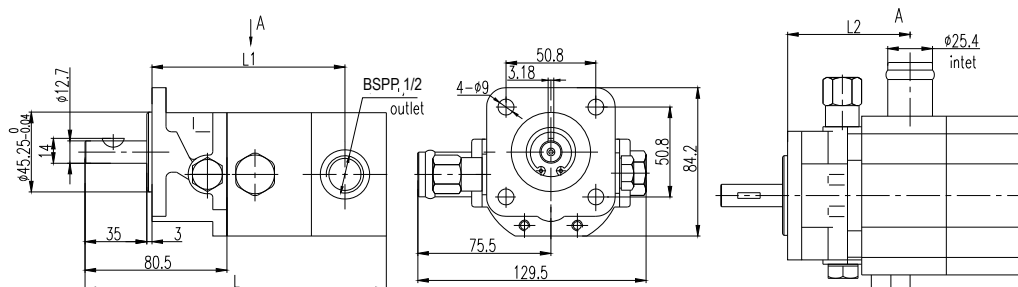
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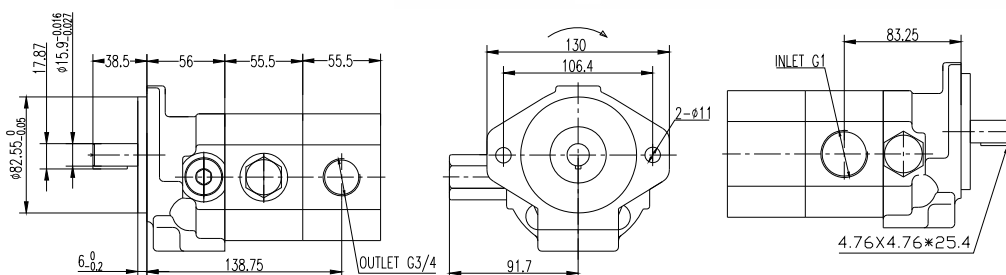
Log Splitter Pumps

Part #	List Price \$	CC Hi-Flow	CC Lo-Flow	Unload Pressure Range	Maximum Pressure	Suction	Pressure
CBT8.8/2.1-L08-C	594.00	8.8	2.1	30-60 bar	200 bar	3/4" BSPP	1/2" BSPP
CBT8.8/3.0-L08-C	594.00	8.8	3.0	30-60 bar	200 bar	3/4" BSPP	1/2" BSPP
CBT13.0/2.1-L08-C	630.00	13.0	2.1	30-60 bar	200 bar	3/4" BSPP	1/2" BSPP
CBT13.0/3.0-L08-C	630.00	13.0	3.0	30-60 bar	200 bar	3/4" BSPP	1/2" BSPP
CBT13.0/4.2-L08-C	630.00	13.0	4.2	30-60 bar	200 bar	3/4" BSPP	1/2" BSPP
CBT15.2/7.6-L03-C	693.00	15.2	7.6	30-60 bar	200 bar	1" BSPP	3/4" BSPP
CBT22.9/7.6-L03-C	730.00	22.9	7.6	30-60 bar	200 bar	1" BSPP	3/4" BSPP

CBT8.8
CBT13.0



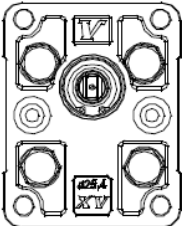
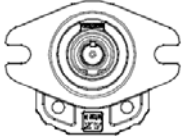
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CBT22.9



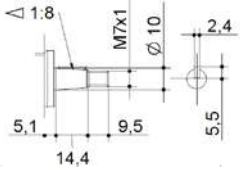
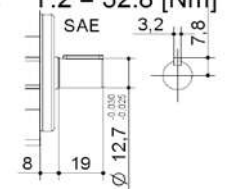
ORDER CODES FOR VIVOIL GROUP 1 MOTORS

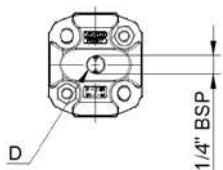
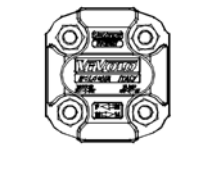
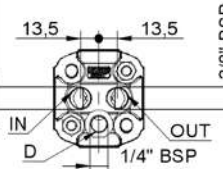
Series	Group	Motor	Displacement	Flange	Shaft	Inlet Port	Outlet Port	Rear Cover
X	1	M	27	01	F	B	B	E

DISPLACEMENT	
0.9cc	16
1.2cc	17
1.7cc	18
2.2cc	20
2.6cc	21
3.2cc	23
3.6cc	25
4.3cc	27
4.9cc	29
5.9cc	31
6.5cc	32
7.8cc	34
9.8cc	36

FLANGE	
	01
DIN Group 1	
	
SAE-AA	
	02

PORTS	INLET	OUTLET
0.9cc	B	B
1.2cc	B	B
1.7cc	B	B
2.2cc	B	B
2.6cc	B	B
3.2cc	B	B
3.6cc	B	B
4.3cc	B	B
4.9cc	B	B
5.9cc	B	B
6.5cc	B	B
7.8cc	B	B
9.8cc	B	B
B = 3/8" BSPP		

SHAFT	
CO001 - Tapered T.2 = 43 [Nm]  Tapered 1:8 Ø 10mm - M7x1 Key 2.4mm	F
CI002 - Parallel T.2 = 32.8 [Nm]  Parallel Ø 1/2" - Key 3.2mm	
	B

REAR COVER	
 1/4" BSP EXTERNAL DRAIN	E
 3/8" BSP INTERNAL DRAIN	
 3/8" BSP REAR PORTED EXTERNAL DRAIN	
	K

Please note:
Additional costs apply for non-standard options

Group 1 Motor DIN Mount, 1:8 Tapered Shaft



Part #	List Price \$	CC	Max Pressure (bar)		Min Start Pressure (bar)	Max/Min Speed (RPM)	Port S	Port P	Dimension (mm)		
			Inlet	Drain					A	B	C
X1M1601FBBE	590.00	0.9	240	6	30	6000/700	3/8" BSPP	3/8" BSPP	78.1	37.3	66.1
X1M1701FBBE	590.00	1.2	250	6	30	6000/700	3/8" BSPP	3/8" BSPP	79.0	37.8	67.0
X1M1801FBBE	590.00	1.7	250	6	30	6000/700	3/8" BSPP	3/8" BSPP	80.5	38.5	68.5
X1M2001FBBE	590.00	2.2	250	6	25	6000/700	3/8" BSPP	3/8" BSPP	82.5	39.5	70.5
X1M2101FBBE	590.00	2.6	250	6	20	6000/700	3/8" BSPP	3/8" BSPP	84.5	40.5	72.5
X1M2301FBBE	498.00	3.2	250	6	15	6000/700	3/8" BSPP	3/8" BSPP	86.5	41.5	74.5
X1M2501FBBE	498.00	3.6	250	6	15	6000/700	3/8" BSPP	3/8" BSPP	88.5	42.5	76.5
X1M2701FBBE	498.00	4.3	250	6	15	6000/700	3/8" BSPP	3/8" BSPP	90.5	43.5	78.5
X1M2901FBBE	521.00	4.9	250	6	15	6000/700	3/8" BSPP	3/8" BSPP	93.5	45.0	81.5
X1M3101FBBE	521.00	5.9	250	6	15	5000/700	3/8" BSPP	3/8" BSPP	97.0	46.8	85.0
X1M3201FBBE	521.00	6.5	250	6	10	5000/700	3/8" BSPP	3/8" BSPP	98.5	48.0	86.5
X1M3401FBBE	521.00	7.8	220	6	10	5000/700	3/8" BSPP	3/8" BSPP	103.5	50.0	91.5
X1M3601FBBE	521.00	9.8	190	6	10	4000/700	3/8" BSPP	3/8" BSPP	112.5	54.5	100.5



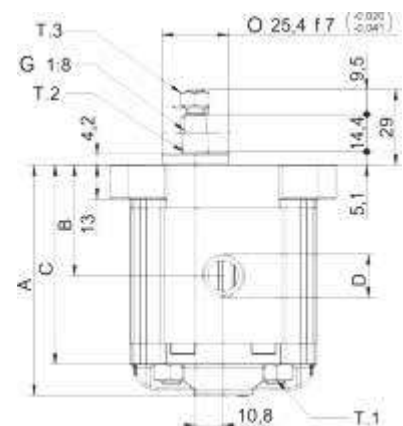
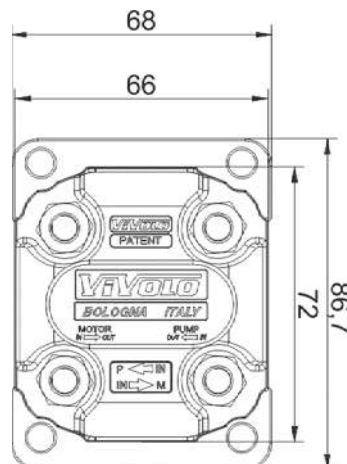
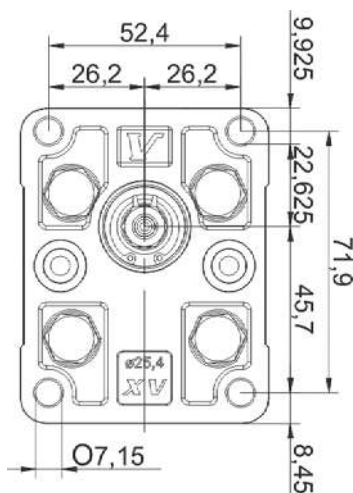
Group 1 Motor Seal Kit



Part #	List Price \$	Material
8KGX1M1.A	43.00	NBR
8KGX1M1.V	125.00	Viton

Rear port with drain available

Available with SAE A-2 bolt, keyed or spline shaft



Group 1 Motor SAE AA Mount, 1/2" Keyed Shaft

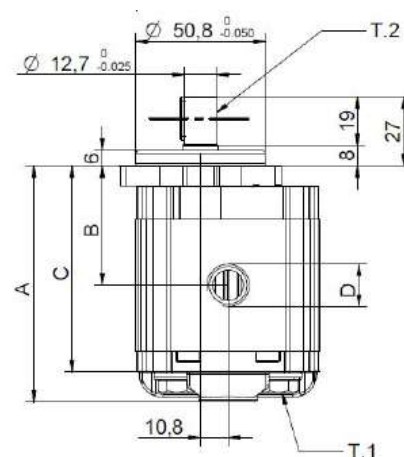
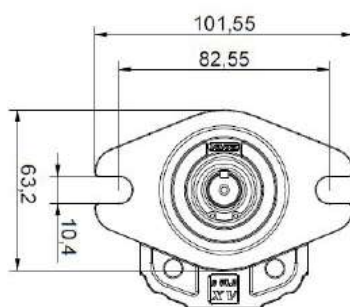
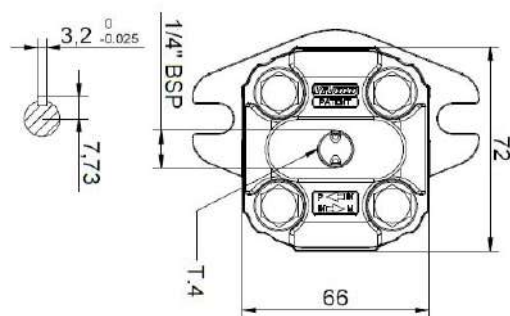


Part #	List Price \$	CC	Max Pressure (bar)		Min Start Pressure (bar)	Max/Min Speed (RPM)	Port S	Port P	Dimension (mm)		
			Inlet	Drain					A	B	C
X1M1661BBBE	590.00	0.9	240	6	30	6000/700	3/8" BSPP	3/8" BSPP	82.6	41.8	70.6
X1M1761BBBE	590.00	1.2	250	6	30	6000/700	3/8" BSPP	3/8" BSPP	83.5	42.3	71.5
X1M1861BBBE	590.00	1.7	250	6	30	6000/700	3/8" BSPP	3/8" BSPP	85.0	43.0	73.0
X1M2061BBBE	590.00	2.2	250	6	25	6000/700	3/8" BSPP	3/8" BSPP	87.0	44.0	75.0
X1M2161BBBE	590.00	2.6	250	6	20	6000/700	3/8" BSPP	3/8" BSPP	89.0	45.0	77.0
X1M2361BBBE	498.00	3.2	250	6	15	6000/700	3/8" BSPP	3/8" BSPP	91.0	46.5	79.0
X1M2561BBBE	498.00	3.6	250	6	15	6000/700	3/8" BSPP	3/8" BSPP	93.0	47.0	81.0
X1M2761BBBE	498.00	4.3	250	6	15	6000/700	3/8" BSPP	3/8" BSPP	95.0	48.0	83.0
X1M2961BBBE	521.00	4.9	250	6	15	6000/700	3/8" BSPP	3/8" BSPP	98.0	49.5	86.0
X1M3161BBBE	521.00	5.9	250	6	15	5000/700	3/8" BSPP	3/8" BSPP	101.5	51.3	89.5
X1M3261BBBE	521.00	6.5	250	6	10	5000/700	3/8" BSPP	3/8" BSPP	105.0	52.5	93.0
X1M3461BBBE	521.00	7.8	220	6	10	5000/700	3/8" BSPP	3/8" BSPP	108.0	54.5	96.0
X1M3661BBBE	521.00	9.8	190	6	10	4000/700	3/8" BSPP	3/8" BSPP	117.0	59.0	105.0

Group 1 Motor Seal Kit



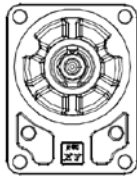
Part #	List Price \$	Material
8KGX1M2.A	43.00	NBR
8KGX1M2.V	125.00	Viton

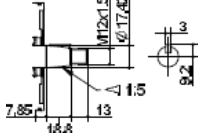
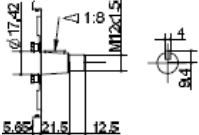


ORDER CODES FOR VIVOIL GROUP 2 MOTORS

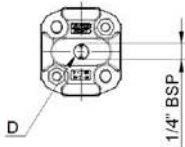
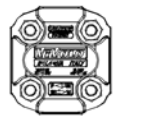
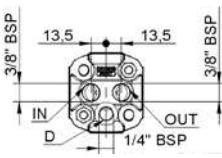
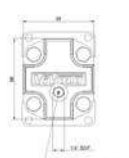
Series	Group	Motor	Displacement	Flange	Shaft	Inlet Port	Outlet Port	Rear Cover
X	2	M	51	32	A	C	C	F

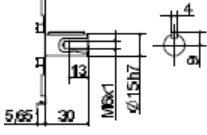
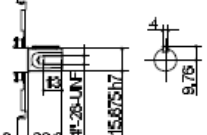
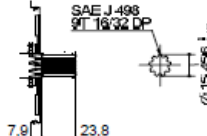
DISPLACEMENT	
4.2cc	41
6.0cc	43
8.4cc	45
10.8cc	47
14.4cc	49
16.8cc	51
19.2cc	53
22.8cc	55
26.2cc	57
30.0cc	59
34.2cc	61
39.6cc	63

FLANGE	
 DIN Group 2	 Ø80 German Standardized
 SAE-A	 Ø50 HY German Standardized

SHAFT	
C0002-Tapered T.2 = 233,2 Nm  Tapered 1:5 Ø 17.4mm M12x1.5, Key 3mm GERMAN MOUNT ONLY	F
C0001-Tapered T.2 = 233,2 Nm  Tapered 1:8 Ø 17.2mm M12x1.5, Key 4mm	E

PORTS	INLET	OUTLET
4.2cc	B	B
6.0cc	B	B
8.4cc	B	B
10.8cc	B	B
14.4cc	C	C
16.8cc	C	C
19.2cc	C	C
22.8cc	C	C
26.2cc	D	D
30.0cc	D	D
34.2cc	D	D
39.6cc	D	D
B = 1/2" BSPP		
C = 3/4" BSPP		
D = 1" BSPP		

REAR COVER	
 1/4" BSP EXTERNAL DRAIN	E
 INTERNAL DRAIN	F
 3/8" BSP 13.5 13.5 1/4" BSP 1/4" BSP REAR PORTED EXTERNAL DRAIN	K
 ANTI-CAVITY CHECK VALVE, EXTERNAL DRAIN	001

CI001-Parallel T.2 = 44,1 Nm  Parallel Ø 15mm - Key 4mm	A
CI002-Parallel T.2 = 67,5 Nm  Parallel Ø 5/8" - Key 4mm	B
SCF04-Splined T.2 = 104,6 Nm  SAE J 498 9T 16/32 DP Splined 9T 16/32 DP	I

Please note:
Additional costs apply for
non-standard options

Group 2 Motor DIN Mount, 1:8 Tapered Shaft

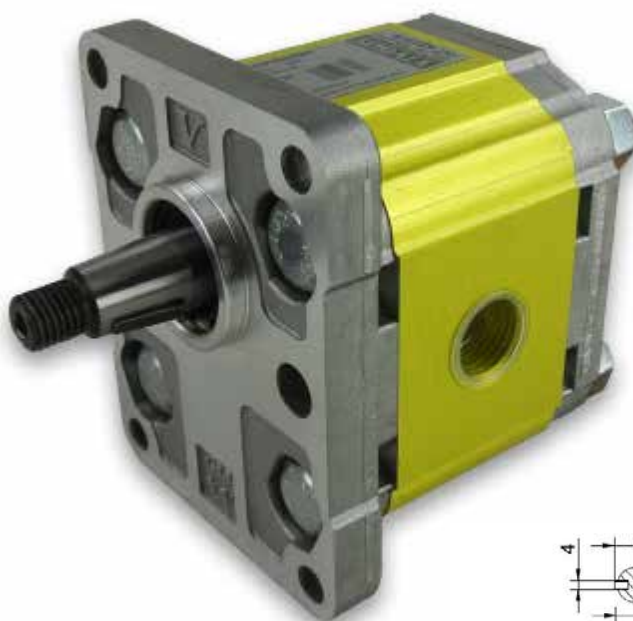


Part #	List Price \$	CC	Max Pressure (bar)		Min Start Pressure (bar)	Max/Min Speed (RPM)	Port S	Port P	Dimension (mm)		
			Inlet	Drain					A	B	C
X2M4101EBBE	635.00	4.2	300	6	30	3500/700	1/2" BSPP	1/2" BSPP	87.2	41.7	77.2
X2M4301EBBE	635.00	6.0	300	6	25	3500/700	1/2" BSPP	1/2" BSPP	90.2	43.2	80.2
X2M4501EBBE	635.00	8.4	300	6	20	3500/700	1/2" BSPP	1/2" BSPP	94.2	45.2	84.2
X2M4701EBBE	635.00	10.8	300	6	20	3500/700	1/2" BSPP	1/2" BSPP	98.2	47.2	88.2
X2M4901ECCE	646.00	14.4	290	6	15	3500/700	3/4" BSPP	3/4" BSPP	104.2	50.2	94.2
X2M5101ECCE	646.00	16.8	270	6	15	3500/700	3/4" BSPP	3/4" BSPP	108.2	52.2	98.2
X2M5301ECCE	680.00	19.2	250	6	15	3000/700	3/4" BSPP	3/4" BSPP	112.2	54.2	102.2
X2M5501ECCE	680.00	22.8	240	6	15	3000/700	3/4" BSPP	3/4" BSPP	118.2	57.2	108.2
X2M5701EDDE	680.00	26.2	210	6	15	3000/700	1" BSPP	1" BSPP	122.2	59.2	112.2
X2M5901EDDE	748.00	30.0	200	6	15	2500/700	1" BSPP	1" BSPP	130.2	63.2	120.2
X2M6101EDDE	748.00	34.2	190	6	15	2500/700	1" BSPP	1" BSPP	137.2	66.7	127.2
X2M6301EDDE	748.00	39.6	180	6	15	2000/700	1" BSPP	1" BSPP	146.2	71.2	136.2

Group 2 Motor Seal Kit



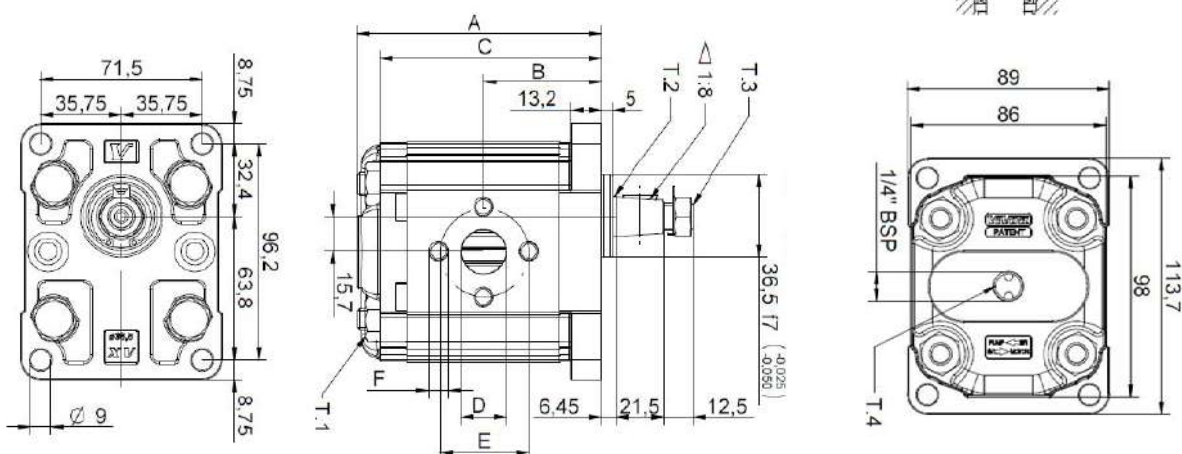
Part #	List Price \$	Material
8KGX2M1.A	81.00	NBR
8KGX2M1.V	150.00	Viton



Available with SAE A-2 bolt, keyed or spline shaft

Rear-port with drain available

Available with anti-cavitation check valve

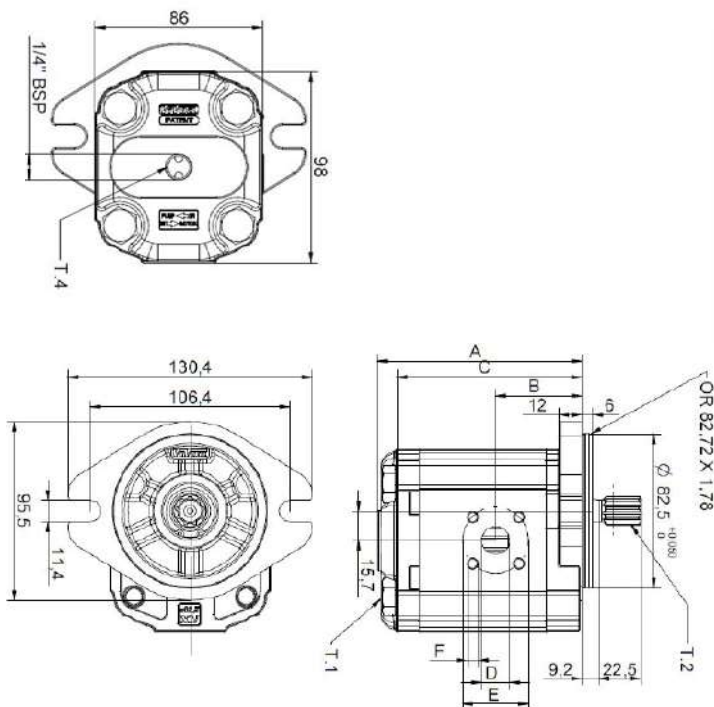


Group 2 Motor SAE A Mount, 5/8" Keyed Shaft

Part #	List Price \$	CC	Max Pressure (bar)		Min Start Pressure (bar)	Max/Min Speed (RPM)	Port S	Port P	Dimension (mm)		
			Inlet	Drain					A	B	C
X2M4131BBBE	635.00	4.2	300	6	30	3500/700	1/2" BSPP	1/2" BSPP	88.0	39.4	78.0
X2M4331BBBE	635.00	6.0	300	6	25	3500/700	1/2" BSPP	1/2" BSPP	91.0	39.4	81.0
X2M4531BBBE	635.00	8.4	300	6	20	3500/700	1/2" BSPP	1/2" BSPP	95.0	41.4	85.0
X2M4731BBBE	635.00	10.8	300	6	20	3500/700	1/2" BSPP	1/2" BSPP	99.0	45.8	89.0
X2M4931BCCE	646.00	14.4	290	6	15	3500/700	3/4" BSPP	3/4" BSPP	105.0	45.8	95.0
X2M5131BCCE	646.00	16.8	270	6	15	3500/700	3/4" BSPP	3/4" BSPP	109.0	45.8	99.0
X2M5331BCCE	680.00	19.2	250	6	15	3000/700	3/4" BSPP	3/4" BSPP	113.0	45.8	103.0
X2M5531BCCE	680.00	22.8	240	6	15	3000/700	3/4" BSPP	3/4" BSPP	119.0	53.3	109.0
X2M5731BDDE	680.00	26.2	210	6	15	3000/700	1" BSPP	1" BSPP	123.0	53.3	113.0
X2M5931BDDE	748.00	30.0	200	6	15	2500/700	1" BSPP	1" BSPP	131.0	61.5	121.0
X2M6131BDDE	748.00	34.2	190	6	15	2500/700	1" BSPP	1" BSPP	138.0	61.5	128.0
X2M6331BDDE	748.00	39.6	180	6	15	2000/700	1" BSPP	1" BSPP	147.0	61.5	137.0

Group 2 Motor SAE A Mount, 5/8" 9 Tooth Splined Shaft

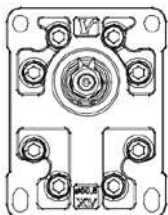
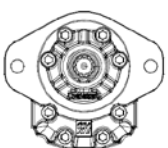
Part #	List Price \$	CC	Max Pressure (bar)		Min Start Pressure (bar)	Max/Min Speed (RPM)	Port S	Port P	Dimension (mm)		
			Inlet	Drain					A	B	C
X2M4131IBBE	635.00	4.2	300	6	30	3500/700	1/2" BSPP	1/2" BSPP	88.0	39.4	78.0
X2M4331IBBE	635.00	6.0	300	6	25	3500/700	1/2" BSPP	1/2" BSPP	91.0	39.4	81.0
X2M4531IBBE	635.00	8.4	300	6	20	3500/700	1/2" BSPP	1/2" BSPP	95.0	41.4	85.0
X2M4731IBBE	635.00	10.8	300	6	20	3500/700	1/2" BSPP	1/2" BSPP	99.0	45.8	89.0
X2M4931ICCE	646.00	14.4	290	6	15	3500/700	3/4" BSPP	3/4" BSPP	105.0	45.8	95.0
X2M5131ICCE	646.00	16.8	270	6	15	3500/700	3/4" BSPP	3/4" BSPP	109.0	45.8	99.0
X2M5331ICCE	680.00	19.2	250	6	15	3000/700	3/4" BSPP	3/4" BSPP	113.0	45.8	103.0
X2M5531ICCE	680.00	22.8	240	6	15	3000/700	3/4" BSPP	3/4" BSPP	119.0	53.3	109.0
X2M5731IDDE	680.00	26.2	210	6	15	3000/700	1" BSPP	1" BSPP	123.0	53.3	113.0
X2M5931IDDE	748.00	30.0	200	6	15	2500/700	1" BSPP	1" BSPP	131.0	61.5	121.0
X2M6131IDDE	748.00	34.2	190	6	15	2500/700	1" BSPP	1" BSPP	138.0	61.5	128.0
X2M6331IDDE	748.00	39.6	180	6	15	2000/700	1" BSPP	1" BSPP	147.0	61.5	137.0

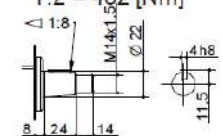
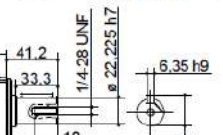
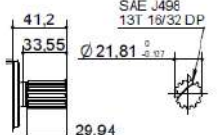


ORDER CODES FOR VIVOIL GROUP 3 MOTORS

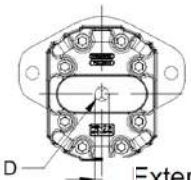
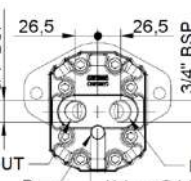
Series	Group	Motor	Displacement	Flange	Shaft	Inlet Port	Outlet Port	Rear Cover
X	3	M	66	32	I	D	D	E

DISPLACEMENT	
14.9cc	66
17.4cc	68
21.1cc	70
27.0cc	72
32.3cc	74
38.5cc	78
43.4cc	79
47.2cc	80
50.9cc	81
54.6cc	82
60.8cc	83
64.5cc	85
70.7cc	86
74.5cc	87
86.9cc	89

FLANGE	
	01
	31
DIN Group 3	
SAE-B	

SHAFT	
CO001 - Tapered T.2 = 482 [Nm]  Tapered 1:8 Ø 22mm M14x1.5 - Key 4mm	A
CI004 - Parallel T.2 = 180 [Nm]  Parallel Ø 7/8" - Key 6.35mm	H
SCF04 - Splined T.2 = 264 [Nm]  Splined 7/8" 13t	I

PORTS	INLET	OUTLET
14.9cc	D	D
17.4cc	D	D
21.1cc	D	D
27.0cc	E	E
32.3cc	E	E
38.5cc	E	E
43.4cc	E	E
47.2cc	E	E
50.9cc	E	E
54.6cc	E	E
60.8cc	E	E
64.5cc	E	E
70.7cc	F	F
74.5cc	F	F
86.9cc	F	F
D = 3/4" BSPP		
E = 1" BSPP		
F = 1.1/4" BSPP		

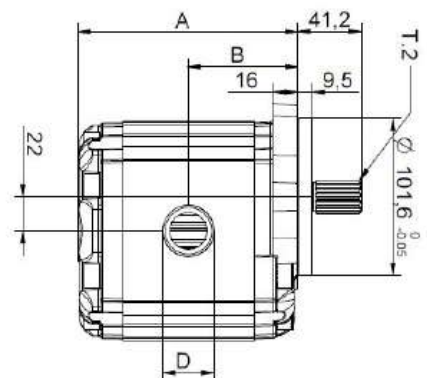
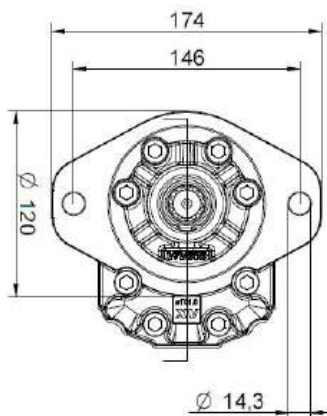
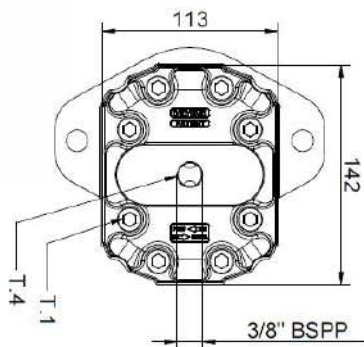
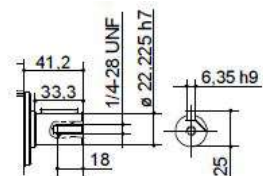
REAR COVER	
 EXTERNAL DRAIN	E
 EXTERNAL DRAIN REAR PORTED	K

Please note:
Additional costs apply for non-standard options

Group 3 Motor SAE B Mount, 7/8" Keyed Shaft

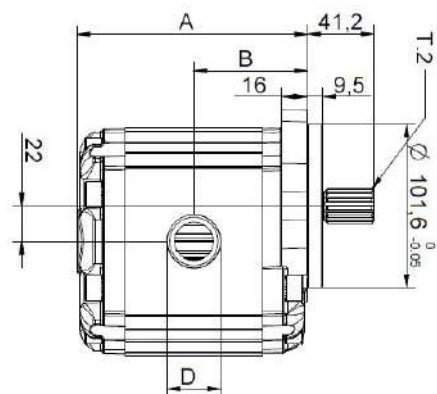
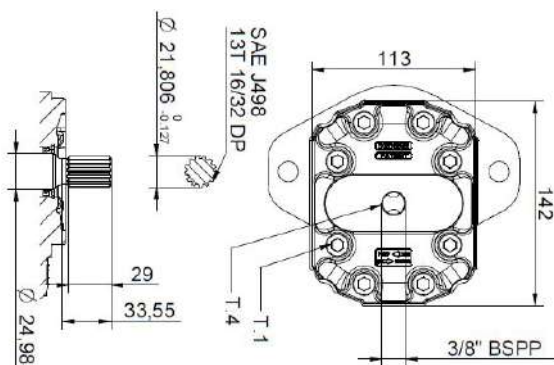
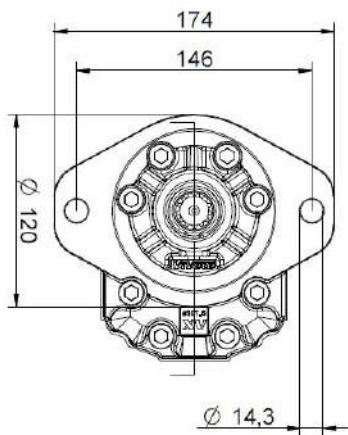


Part #	List Price \$	CC	Max Pressure (bar)		Min Start Pressure	Max/Min Speed (RPM)	Port S	Port P	Dimension (mm)	
			Inlet	Drain					A	B
X3M7031BDDE	1383.00	21.1	300	6	15	3000/700	3/4" BSPP	3/4" BSPP	129.0	63.5
X3M7231HEEE	1383.00	27.0	270	6	10	3000/700	3/4" BSPP	3/4" BSPP	133.0	65.5
X3M7431HEEE	1450.00	32.3	270	6	10	3000/700	1" BSPP	1" BSPP	138.0	68.0
X3M7831HEEE	1450.00	38.5	270	6	10	2800/700	1" BSPP	1" BSPP	143.0	70.5
X3M7931HEEE	1450.00	43.4	250	6	10	2800/700	1" BSPP	1" BSPP	147.0	72.5
X3M8031HEEE	1496.00	47.2	250	6	10	2800/700	1" BSPP	1" BSPP	150.0	74.0
X3M8131HEEE	1496.00	50.9	250	6	10	2800/700	1" BSPP	1" BSPP	153.0	75.5
X3M8231HEEE	1496.00	54.6	250	6	10	2300/700	1" BSPP	1" BSPP	156.0	77.0
X3M8331HFFE	1496.00	60.8	220	6	10	2300/700	1.1/4" BSPP	1.1/4" BSPP	161.0	79.5
X3M8631HFFE	1563.00	70.7	210	6	10	2300/700	1.1/4" BSPP	1.1/4" BSPP	169.0	83.5
X3M8731HFFE	1563.00	74.5	190	6	10	2300/700	1.1/4" BSPP	1.1/4" BSPP	172.0	85.0
X3M8931HFFE	1563.00	86.9	160	6	10	2300/700	1.1/4" BSPP	1.1/4" BSPP	182.0	90.0



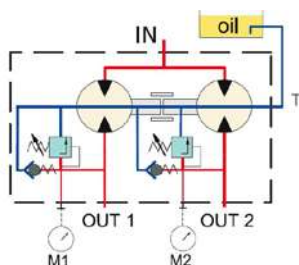
Group 3 Motor SAE B Mount, 7/8" 13 Tooth Splined Shaft

Part #	List Price \$	CC	Max Pressure (bar)		Min Start Pressure	Max/Min Speed (RPM)	Port S	Port P	Dimension (mm)	
			Inlet	Drain					A	B
X3M6631IDDE	1383.00	14.9	320	6	20	3000/700	3/4" BSPP	3/4" BSPP	124.0	61.0
X3M7031IDDE	1383.00	21.1	300	6	15	3000/700	3/4" BSPP	3/4" BSPP	129.0	63.5
X3M7231IEEE	1383.00	27.0	270	6	10	3000/700	3/4" BSPP	3/4" BSPP	133.0	65.5
X3M7431IEEE	1450.00	32.3	270	6	10	3000/700	1" BSPP	1" BSPP	138.0	68.0
X3M7831IEEE	1450.00	38.5	270	6	10	2800/700	1" BSPP	1" BSPP	143.0	70.5
X3M7931IEEE	1450.00	43.4	250	6	10	2800/700	1" BSPP	1" BSPP	147.0	72.5
X3M8031IEEE	1496.00	47.2	250	6	10	2800/700	1" BSPP	1" BSPP	150.0	74.0
X3M8131IEEE	1496.00	50.9	250	6	10	2800/700	1" BSPP	1" BSPP	153.0	75.5
X3M8231IEEE	1496.00	54.6	250	6	10	2300/700	1" BSPP	1" BSPP	156.0	77.0
X3M8331IFFE	1496.00	60.8	220	6	10	2300/700	1.1/4" BSPP	1.1/4" BSPP	161.0	79.5
X3M8531IFFE	1496.00	64.5	220	6	10	2300/700	1.1/4" BSPP	1.1/4" BSPP	164.0	81.0
X3M8631IFFE	1563.00	70.7	210	6	10	2300/700	1.1/4" BSPP	1.1/4" BSPP	169.0	83.5
X3M8731IFFE	1563.00	74.5	190	6	10	2300/700	1.1/4" BSPP	1.1/4" BSPP	172.0	85.0
X3M8931IFFE	1563.00	86.9	160	6	10	2300/700	1.1/4" BSPP	1.1/4" BSPP	182.0	90.0



2-Way Rotary Gear Flow Dividers, Differential Relief

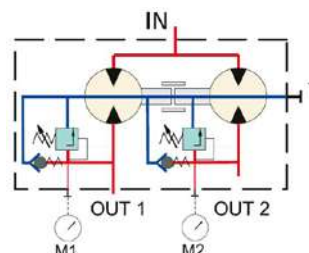
Part #	List Price \$	Displacement per Section	Body Size	Max Pressure (bar)	Inlet Flow Ratings (lpm)			Port Size (BSPP)		Relief Range (bar)
					Min	Recommended	Max	In	Out	
9RV02B04	1875.00	0.45	Group 0	210	1.2	2.4	6.0	1/4"	1/4"	35-175
9RV02B06	1875.00	0.76	Group 0	210	2.0	4.0	9.6	1/4"	1/4"	35-175
9RV02B09	1875.00	1.27	Group 0	210	3.0	6.0	14.4	1/4"	1/4"	35-175
9RV02A18	2118.00	1.70	Group 1	220	4.0	8.0	18.0	1/2"	3/8"	7-210
9RV02A23	2118.00	3.20	Group 1	220	7.0	15.0	36.0	1/2"	3/8"	7-210
9RV02A32	2202.00	6.50	Group 1	220	13.0	26.0	60.0	1/2"	3/8"	7-210
9RV02B45	2511.00	8.40	Group 2	210	21.6	30.2	45.0	3/4"	1/2"	70-210
9RV02B47	2511.00	10.80	Group 2	210	26.4	38.8	55.0	3/4"	1/2"	70-210
9RV02B51	2561.00	16.80	Group 2	200	40.8	60.4	85.0	3/4"	1/2"	70-210
9RV02B55	2649.00	22.80	Group 2	180	52.8	82.0	110.0	3/4"	1/2"	70-210
9RV02B59	2808.00	30.00	Group 2	160	72.0	108.0	150.0	1"	3/4"	70-210
9RV02B63	2808.00	39.60	Group 2	130	96.0	142.6	200.0	1"	3/4"	70-210
NEW 9RV02B70	6130.00	21.00	Group 3	280	50.0	76.0	105.0	1"	1/2"	70-210
NEW 9RV02B78	6395.00	38.00	Group 3	250	82.0	120.0	182.0	1"	3/4"	70-210
NEW 9RV02B81	6560.00	51.00	Group 3	230	102.0	153.0	234.0	1.1/4"	1"	70-210
NEW 9RV02B85	6560.00	64.00	Group 3	210	114.0	166.0	256.0	1.1/4"	1"	70-210



EXTERNAL DRAIN (Standard Setup)

For the correct functioning of the flow divider, it has to be installed under the oil level.

The drain tube has to pick up under the oil level and it has not to aspire air.



INTERNAL DRAIN (Standard Setup)

Note that with this configuration the function of anti-cavitation valves is annulled.

GROUP 0



GROUP 2



GROUP 1



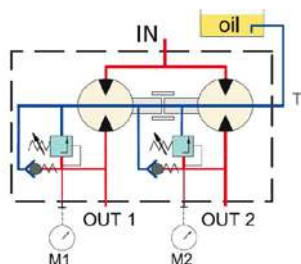
GROUP 3



4-Way Rotary Gear Flow Dividers, Differential Relief



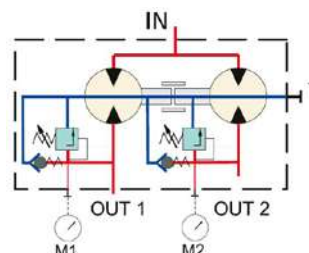
Part #	List Price \$	Displacement per Section	Body Size	Max Pressure (bar)	Inlet Flow Ratings (lpm)			Port Size (BSPP)		Relief Range (bar)
					Min	Recommended	Max	In	Out	
9RV04B04	3749.00	0.45	Group 0	210	2.4	4.8	12.0	1/4"	1/4"	35-175
9RV04B06	3749.00	0.76	Group 0	210	4.0	8.0	19.2	1/4"	1/4"	35-175
9RV04B09	3749.00	1.27	Group 0	210	6.0	12.0	28.8	1/4"	1/4"	35-175
9RV04A18	4235.00	1.70	Group 1	220	8.0	16.0	36.0	1/2"	3/8"	7-210
9RV04A23	4235.00	3.20	Group 1	220	14.0	30.0	72.0	1/2"	3/8"	7-210
9RV04A32	4405.00	6.50	Group 1	220	26.0	52.0	120.0	1/2"	3/8"	7-210
9RV04B45	4350.00	8.40	Group 2	210	43.2	60.4	90.0	3/4"	1/2"	70-210
9RV04B47	4429.00	10.80	Group 2	210	52.8	77.6	110.0	3/4"	1/2"	70-210
9RV04B51	4430.00	16.80	Group 2	200	81.6	120.8	170.0	3/4"	1/2"	70-210
9RV04B55	4582.00	22.80	Group 2	180	105.6	164.0	220.0	3/4"	1/2"	70-210
9RV04B59	4860.00	30.00	Group 2	160	144.0	216.0	300.0	1"	3/4"	70-210
9RV04B63	4860.00	39.60	Group 2	130	192.0	285.2	400.0	1"	3/4"	70-210
NEW 9RV04B70	12260.00	21.00	Group 3	280	100.0	152.0	210.0	1"	1/2"	70-210
NEW 9RV04B78	12790.00	38.00	Group 3	250	164.0	240.0	364.0	1"	1/2"	70-210
NEW 9RV04B81	13115.00	51.00	Group 3	230	204.0	306.0	468.0	1.1/4"	1"	70-210
NEW 9RV04B85	13115.00	64.00	Group 3	210	228.0	332.0	512.0	1.1/4"	1"	70-210



EXTERNAL DRAIN (Standard Setup)

For the correct functioning of the flow divider, it has to be installed under the oil level.

The drain tube has to pick up under the oil level and it has not to aspire air.



INTERNAL DRAIN (Standard Setup)

Note that with this configuration the function of anti-cavitation valves is annulled.

GROUP 0



GROUP 2



GROUP 1



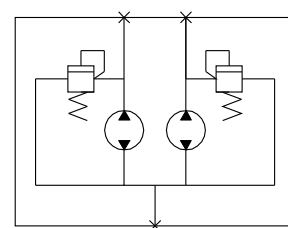
GROUP 3



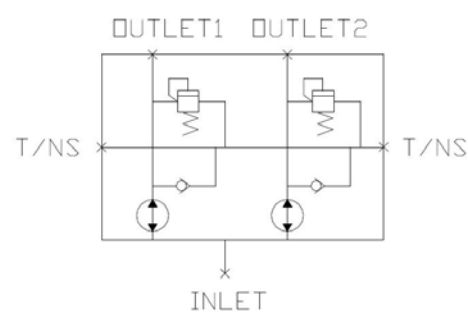
2-Way Rotary Gear Flow Dividers, Differential Relief

Part #	List Price \$	Maximum Pressure (bar)		Inlet Flow Ratings (lpm)		Port Size (BSPP)		Pressure Drop (bar)
		Continuous	Differential	Min	Max	In	Out	
1FDF-1.6-L05-2	840.00	240	124	3	10	1/2"	3/8"	16-19
1FDF-3.18-L08-2	866.00	240	124	6	20	3/4"	1/2"	16-19
1FDF-5.29-L08-2	891.00	240	124	10	32	3/4"	1/2"	16-19
1FDF-8.42-L08-2	935.00	240	124	16	42	3/4"	1/2"	16-19
2FDF-14-L08-2	1978.00	220	200	28	70	3/4"	1/2"	11-14
2FDF-25-L03-2	2017.00	220	200	50	125	1"	3/4"	11-14

1FDF



2FDF



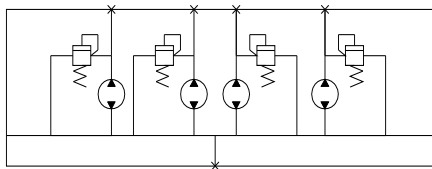
Differential relief valves
Standard setting 750psi

4-Way Rotary Gear Flow Dividers, Differential Relief

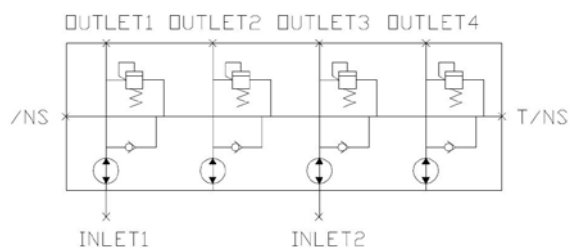
Part #	List Price \$	Maximum Pressure (bar)		Inlet Flow Ratings (lpm)		Port Size (BSPP)		Pressure Drop (bar)
		Continuous	Differential	Min	Max	In	Out	
1FDF-1.6-L05-4	1680.00	240	124	3	10	1/2"	3/8"	16-19
1FDF-3.18-L08-4	1732.00	240	124	6	20	3/4"	1/2"	16-19
1FDF-5.29-L08-4	1782.00	240	124	10	32	3/4"	1/2"	16-19
1FDF-8.42-L08-4	1870.00	240	124	16	50	1"	1/2"	16-19
2FDF-14-L08-4	3956.00	220	200	28	140	1"	3/4"	11-14
2FDF-25-L03-4	4034.00	220	200	50	250	1.1/2"	1"	11-14



1FDF



2FDF



6-Way Rotary Gear Flow Dividers, Differential Relief

Part #	List Price \$	Maximum Pressure (bar)		Inlet Flow Ratings (lpm)		Port Size (BSPP)		Pressure Drop (bar)
		Continuous	Differential	Min	Max	In	Out	
1FDF-2.0-L05-6	2673.00	240	124	12	36	1/2"	3/8"	16-19

