格林液压
GREEN HYDRAULIC



打造机械领域全球 一站式供应商
TO CREATEA GLOBAL ONE-STOP QUALITY SUPPLIER OF MACHINERY

常州格林液压设备制造有限公司
CHANGZHOU GREEN HYDRAULIC CO.,LTD

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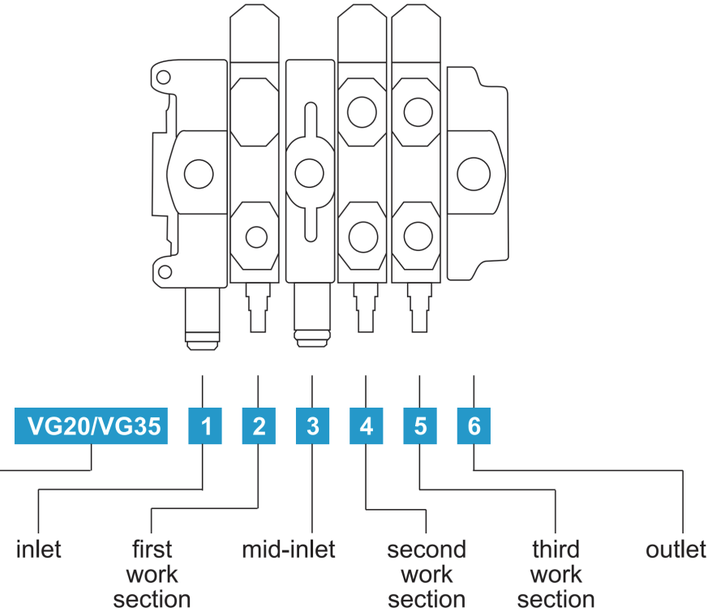
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常州格林液压设备制造有限公司
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VG20/35 Valves

How to specify code

A. Determine the system pressure and required flow through the valve and select the appropriate valve model.
B. Determine the number and order of sections required.
C. Specify the requirements for each of the sections - and select the appropriate codes for those requirements.
D. Assemble the code, specifying the model and then each section starting with the inlet and continue to the outlet.



	section	requirements	code
	Model	VG20 System pressure: 2500 psi ~3500 psi, Valve flow :40gpm VG35 System pressure: 2500 psi ~3500 psi, Valve flow :70gpm	**VG20/VG35**
1	Inlet (pages 2&10)	Standard inlet with relief valve set at 2500 psi and - 16-SAE straight thread top ports	**AA080 (2500)**
2	First Work Section (pages 4&12)	Lo-Boy - double - acting cylinder, parallel circuit - spring return - 12-SAE straight thread ports	**DA7**
3	Mid-section Inlet (pages 5&13)	Combined flow type without a relief valve - 12-SAE straight thread port	**CCA70**
4	Second WorkSection (pages 4&12)	Lo-Boy - double-acting motor, parallel circuit - spring return - 12-SAE straight thread port	**MA7**
5	Third Work Section (pages 4&12)	Lo-Boy - double-acting cylinder, parallel circuit - solenoid operated - 12-SAE straight thread port	**DK7**
6	Outlet Section (pages 6&14)	Return to tank type - 16-SAE straight thread top port	**Z080**

example of assembled valve ordering code

VG20-AA080 (2500) - DA7 - CCA70 - MA7 - DK7 - Z080

VG20

Inlet Coding Table

VG20 - A - 8 8 0

Model

A – Standard

1st Code – Side Port
2nd Code – Top Port
3rd Code – Botton Port

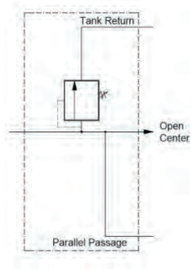
0 - no port
1 - 3/4” split flange
2 - 1/2” NPT
3 - 3/4” NPT
4 - 1” NPT
5 - 1-1/4” NPT
6 - SAE-10
7 - SAE-12
8 - SAE-16
9 - SAE-20

Standard

Part Number	Replacement for	Side Port	Top Port	Remark
VG20-A440	347-9175-001	1”NPT	1”NPT	Without MRV
VG20-A770	347-9175-004	SAE-12	SAE-12	Without MRV
VG20-A880	347-9175-002	SAE-16	SAE-16	Without MRV

Includes plastic port plugs





Schematic with MRV

VG20

Mid-Inlet Coding Table

Machined for MRV or MRVP.

VG20 - SFA - 7 0

Model

SFA – Mid-Inlet split
CFA – Mid-Inlet combined

1st Code – Top Port
2nd Code – Rear Port

0 - no port
1 - 3/4” split flange
2 - 1/2” NPT
3 - 3/4” NPT
4 - 1” NPT
5 - 1-1/4” NPT
6 - SAE-10
7 - SAE-12
8 - SAE-16
9 - SAE-20

Combined Flow - Combines primary & secondary pump flows for faster operating speed of downstream functions.

Part Number	Replacement for	Top Port	Rear port
VG20-CFA30	347-9174-003	3/4”NPT	none
VG20-CFA70	347-9174-004	SAE-12	none



Split Flow - Separates primary and secondary pump flows.

One valve bank operates like two.

Part Number	Replacement for	Top Port	Rear port
VG20-SFA30	347-9174-001	3/4”NPT	none
VG20-SFA70	347-9174-002	SAE-12	none



Main Relief Valves (MRV) Inlet - Mid-inlets

differential type, screw adjustable

Part Number	Replacement for	Description
VG20-MRV	391-1873-001	2000PSI@30GPM 500~2500PSI screw adjustable
VG20-HMRV	391-1873-128	3000PSI@30GPM 2000~3500PSI screw adjustable
VG20-MRVP	391-1873-002	Main relief valve plug with seal washer

MRV and MRVP torque 75 ft. lbs. (900 in. lbs.)

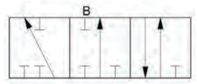
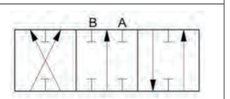
VG20

Low-boy Work Section Coding Table

VG20 - D A 7

Model

Spool Action and Function
A - Spring return
B - 3 position detent
V - Single ended air shift, metering
VA - Single ended air shift, on/off
X - Hydraulic remote control, metering

LO-BOY	Spool Function + Circuit	Symbol
S	Parallel Single acting Cylinder spool, B port	
D	Parallel Double acting Cylinder spool	 Spool functions symbols for: D and WHD.
M	Parallel Double acting Motor spool	 Spool functions symbols for: M and WHM.

A & B Port Size:
0 – no port
1 – 3/4” split flange
2 – 1/2” NPT
3 – 3/4” NPT
4 – 1” NPT
5 – SAE-8
6 – SAE-10
7 – SAE-12
8 – SAE-16
9 – SAE-20

WORK SECTION

GENERAL NO.	REPLACEMENT FOR	DESCRIPTION
VG20-DA3	347-9172-002	Double action, cyl, spring return, 3/4" NPT ports
VG20-DA7	347-9172-003	Double action, cyl, spring return, SAE-12 ports
VG20-DB3	347-9172-026	Double action, cyl, 3 pos detent, SAE-12 ports
VG20-DB7	347-9172-027	Double action, cyl, 3 pos detent, SAE-12 ports
VG20-SA3	347-9171-002	Single action, cyl, spring return, 3/4" NPT ports
VG20-SA7	347-9171-003	Single action, cyl, spring return, SAE-12 ports
VG20-MA3	347-9172-005	Double action, float, spring return, 3/4" NPT ports
VG20-MA7	347-9172-006	Double action, float, spring return, SAE-12 ports
VG20-MB3	347-9172-039	Double action, float, 3 pos detent, 3/4" NPT ports
VG20-MB7	347-9172-040	Double action, float, 3 pos detent, SAE-12 ports
VG20-DV3	347-9172-033	Double action, cyl, airshift, spring return, 3/4" NPT ports
VG20-DV7	347-9172-034	Double action, cyl, airshift, spring return, SAE-12 ports
VG20-MV3	347-9172-136	Double action, float, airshift, spring return, 3/4" NPT ports
VG20-MV7	347-9172-137	Double action, float, airshift, spring return, SAE-12 ports
VG20-SV7	347-9171-018	SINGLE action, cyl, airshift, spring return, SAE-12 ports
VG20-DX3	347-9172-043	Double action, cyl, metered hydra control, spring return, 3/4" NPT ports
VG20-DX7	347-9172-044	Double action, cyl, metered hydra control, spring return, SAE-12 ports
VG20-MX3	347-9172-062	Double action, float, metered hydra control, spring return, 3/4" NPT ports
VG20-MX7	347-9172-063	Double action, float, metered hydra control, spring return, SAE-12 ports
VG20-DX7	347-9172-044	Double action, cyl, metered hydra control, spring return, SAE-12 ports
VG20-MX3	347-9172-062	Double action, float, metered hydra control, spring return, 3/4" NPT ports
VG20-MX7	347-9172-063	Double action, float, metered hydra control, spring return, SAE-12 ports

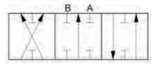
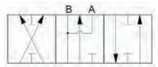
VG20

Hi-boy Work Section Coding Table

VG20 - D A 0 5 5

Model

Spool Action and Function
A - Spring return
B - 3 position detent
V - Single ended air shift, metering
VA - Single ended air shift, on/off
X - Hydraulic remote control, metering

HI-BOY	Spool Function + Circuit	Symbol
J	Parallel Single acting Cylinder spool, B port	
H	Parallel Double acting Cylinder spool	 Spool functions symbols for: D and WH.
WH	Series Double acting Cylinder spool	
L	Parallel Double acting Motor spool	 Spool functions symbols for: M and WL.
WL	Series Double acting Motor spool	

A & B Port Size:
0 – no port
1 – 3/4” split flange
2 – 1/2” NPT
3 – 3/4” NPT
4 – 1” NPT
5 – SAE-8
6 – SAE-10
7 – SAE-12
8 – SAE-16
9 – SAE-20

accessory valve Port A
0 – not machined
1 – relief valve and anti-cavitation
2 – anti-cavitation
3 – relief valve
4 – crossover relief
5 – machined with plastric Port covers (stan dard)
9 – plugged

accessory valve Port B
0 – not machined
1 – relief valve and anti-cavitation
2 – anti-cavitation
3 – relief valve
4 – crossover relief
5 – machined with plastric Port covers (stan dard)
9 – plugged

HI-BOY WORK SECTION

GENERAL NO.	REPLACEMENT FOR	DESCRIPTION
VG20-HA055	347-9172-007	Hi-BOY, Double action ,cvl. spring return, no ported
VG20-HA355	347-9172-008	Hi-BOY, Double action ,cyl, spring return, 3/4” N PT ports
VG20-HA755	347-9172-009	Hi-BOY, Double action ,cvl, spring return, SAE-12 ports
VG20-HB355	347-9172-011	Hi-BOY, Double action ,cvl, 3 oos detent, 3/4” N PT Ports,
VG20-HB755	347-9172-018	Hi-BOY, Double action ,cyl, 3 pos detent, SAE-12 ports
VG20-JA005	347-9172-004	Hi-BOY, Single action ,cyl, spring return, no ported
VG20-JA305	347-9172-005	Hi-BOY, Single action ,cvl, spring return, 3/4” NPT B ports
VG20-JA755	347-9172-006	Hi-BOY, Single action ,cyl, spring return, SAE-12 B ports
VG20-LA355	347-9172-011	Double action ,float , spring return, 3/4”NPT ports
VG20-LA755	347-9172-012	Double action ,float , sorina return,SAE-12 ports
VG20-LB355	347-9172-077	Double action ,float , 3 pos detent, 3/4" NPT ports
VG20-LB755	347-9172-078	Double action ,float , 3 pos detent, SAE-12 ports
VG20-HV355	347-9172-024	Double action ,cyl, airshift ,spring return, 3/4” NPT ports
VG20-HV755	347-9172-025	Double action ,cyl, airshift ,spring return, SAE-12 ports
VG20-HX755	347-9172-046	Double action ,cvl, metered hydra control ,spring return, SAE-12 ports
VG20-LX355	347-9172-072	Double action ,float , metered hydra control ,spring return, 3/4” N PT ports
VG20-LX755	347-9172-073	Double action ,float , metered hydra control ,spring return, SAE-12 ports
VG20-HV755	347-9172-025	Double action ,cyl, airshift ,spring return, SAE-12 ports
VG20-HX355	347-9172-045	Double action ,cyl, metered hydra control ,spring return, 3/4 ” NPT ports
VG20-HX755	347-9172-046	Double action ,cvl, metered hydra control ,sprinq return, SAE-12 ports
VG20-LX355	347-9172-072	Double action ,float , metered hydra control ,spring return,3/4” NPT ports
VG20-LX755	347-9172-073	Double action ,float , metered hydra control ,sprinq return, SAE-12 ports
VG20-WHA355		In series , Double action ,cyl, spring return, 3/4” NPT ports
VG20-WHA755		In series , Double action ,cyl, spring return, SAE-12 ports
VG20-WHB355		In series , Double action ,cyl, 3 pos detent, 3/4” NPT ports,
VG20-WHB755		In series , Double action ,cyl, 3 pos detent, SAE-12 ports
VG20-WLA355		In series , Double action , float, spring return, 3/4” NPT ports
VG20-WLA755		In series , Double action , float, spring return, SAE-12 ports
VG20-WLB355		In series , Double action , float, 3 pos detent, 3/4” NPT ports,
VG20-WLB755		In series , Double action , float, 3 pos detent, SAE-12 ports

VG20

Outlet - Coding Table

VG20 TR - 8 8

Model

- **TR** - Tank return
- **PB** - Power beyond
- **TTR** - Tank return
- **TPB** - Power beyond

1st Code – Side Port
2nd Code – Top Port

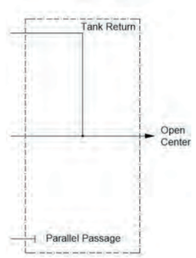
- **0** - no ports
- **1** - 3/4” split flange
- **2** - 1/2” NPT
- **3** - 3/4” NPT
- **4** - 1” NPT
- **5** - SAE-8
- **6** - SAE-10
- **7** - SAE-12
- **8** - SAE-16
- **9** - SAE-20



Tank Return

Part Number	Replacement for	Side Port	Top Port
VG20-TR44	347-9176-001	1”NPT	1”NPT
VG20-TR50	347-0176-501	1-1/4” NPT	no port
VG20-TR88	347-9176-002	SAE-16	SAE-16
*VG20-TTR88	347-9176-007	SAE-16	SAE-16
*VG20-TTR90	347-9176-024	SAE-20	no port

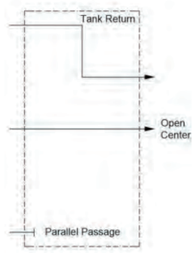
Note: * For 3500psi application



Power Beyond

Part Number	Replacement for	Side Port LP	Side Port HP	Top Port LP	Top Port HP
VG20-PB08	347-9176-005	no port	no port	SAE-16	SAE-16
VG20-PB44	347-9176-003	1”NPT	1”NPT	1”NPT	1”NPT
VG20-PB80	347-9176-004	SAE-16	SAE-16	no port	no port
VG20-PB88	347-9176-007	SAE-16	SAE-16	SAE-16	SAE-16
*VG20-TPB88	347-9176-008	SAE-16	SAE-16	SAE-16	SAE-16

Note: * For 3500psi application



VG20

Stud Kits



Part Number	Replacement for
VG20-SK-1	391-1873-045
VG20-SK-2	391-1873-046
VG20-SK-3	391-1873-047
VG20-SK-4	391-1873-048
VG20-SK-5	391-1873-049
VG20-SK-6	391-1873-050
VG20-SK-7	391-1873-051
VG20-SK-8	391-1873-052

SK studs - torque 29ft. lbs. (348in. lbs.) for 2500psi

Thru Hole Stud Kits



Part Number	Replacement for
VG20-TSK-1	391-1873-129
VG20-TSK-2	391-1873-130
VG20-TSK-3	391-1873-131
VG20-TSK-4	391-1873-132
VG20-TSK-5	391-1873-133
VG20-TSK-6	391-1873-134
VG20-TSK-7	391-1873-135
VG20-TSK-8	391-1873-136

TSK studs - torque 42ft.lbs. (504in. lbs.) for 3500psi use thru hole outlets

Work Section Spool Actuator Kits

Part Number	Replacement for	Function
VG20-K-100	391-1873-019	Spring return
VG20-K-101	391-1873-020	3 position detent
VG20-K-109	391-1873-173	Metering hyd remote control
VG20-K-113	391-1873-206	Metering air shift
VG20-K-113A		Airshift on/off

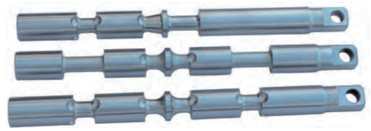


Work Section

VG20

Spools

Part Number	Replacement for	Description
VG20-SPL-1	391-1873-067	4 way/3 position, hold in neutral
VG20-SPL-3	391-1873-071	4 way/3 postion, float in neutral
VG20-SPL-5	391-1873-075	3 way/3 position, hold in neutral

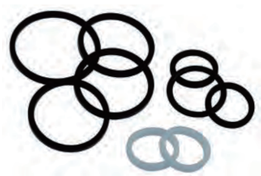


Seal Kits

Part Number	Replacement for	Kit	Kit Contains
VG20-K-1	391-2873-035	Work section assembly kit	4 section seals
VG20-K-2	391-1873-036	Work section repair kit	7 seals & 2 spool support rings



K-1



K-2

Handle Assembly- includes linkage kit.

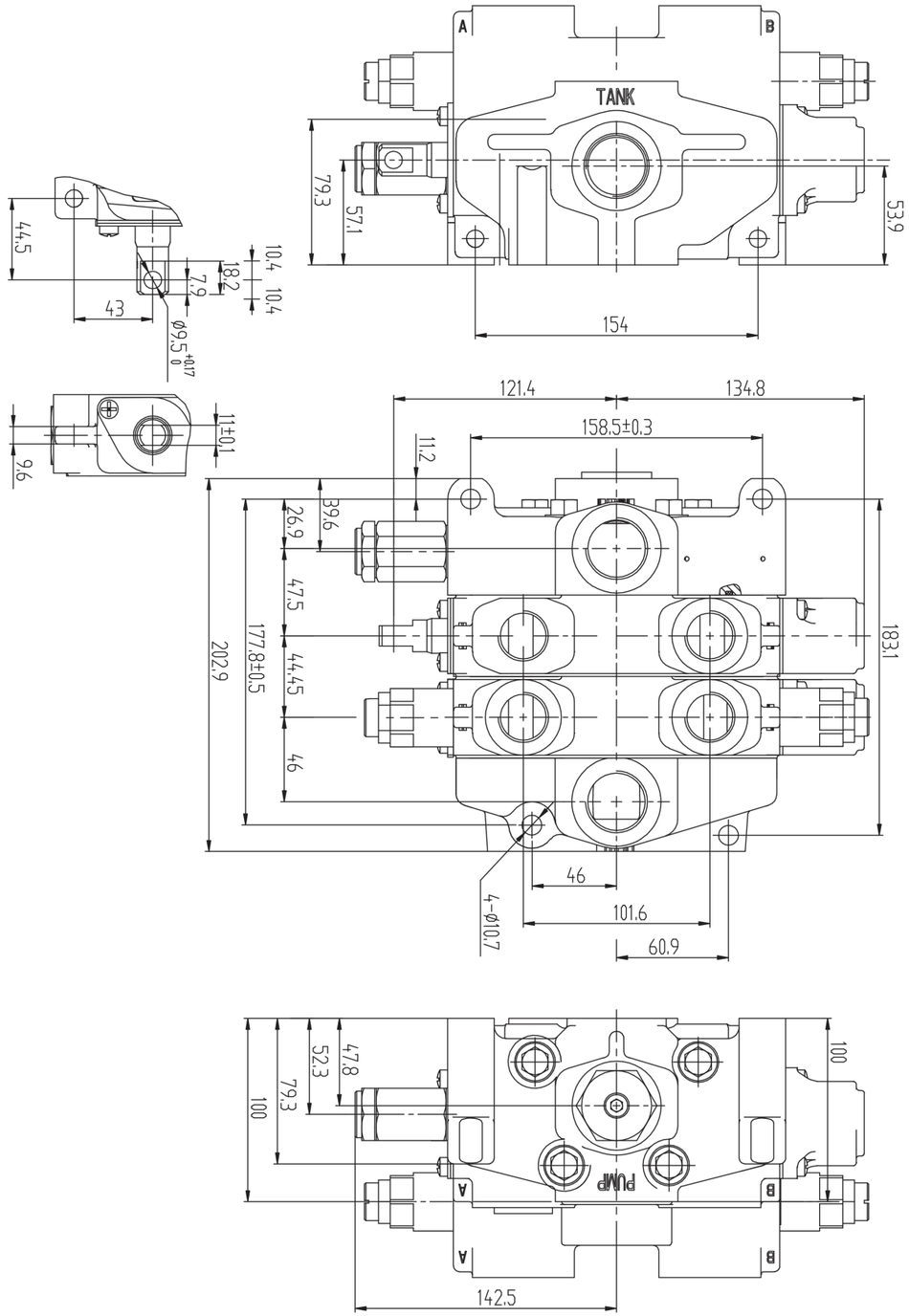
H style handles are for Hi-Boy sections with port relief valve on the handle side.

Part Number	Replacement for	Description
VG20-H-4	391-1873-094	Handle 8"
VG20-H-6	391-1873-061	Handle 6" H style for Hi-BOY
VG20-H-8	391-1873-062	Handle 8" H style for Hi-BOY
VG20-H-10	391-1873-063	Handle 10" H style for Hi-BOY



VG20

Dimensional Data



VG35

Inlet Coding Table

VG35 - A - 8 8 0

Model

A – Standard

1st Code – Side Port
2nd Code – Top Port
3rd Code – Botton Port

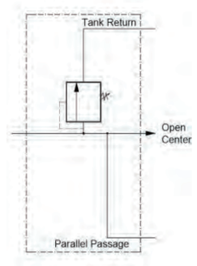
0 - no port
1 - 3/4” split flange
2 - 1/2” NPT
3 - 3/4” NPT
4 - 1” NPT
5 - 1-1/4” NPT
6 - SAE-10
7 - SAE-12
8 - SAE-16
9 - SAE-20

Standard

Part Number	Replacement for	Side Port	Top Port	Remark
VG35-A440	348-9175-001	1”NPT	1”NPT	Without MRV
VG35-A880	348-9175-005	SAE-16	SAE-16	Without MRV
VG35-A980	348-9175-002	SAE-20	SAE-16	Without MRV
VG35-A990		SAE-20	SAE-20	Without MRV

Includes plastic port plugs





Schematic with MRV

VG35

Mid-Inlet Coding Table

Machined for MRV or MRVP.

VG35 - SFA - 7 0

Model

SFA – Mid-Inlet split
CFA – Mid-Inlet combined

1st Code – Top Port
2nd Code – Rear Port

0 - no port
1 - 3/4” split flange
2 - 1/2” NPT
3 - 3/4” NPT
4 - 1” NPT
5 - 1-1/4” NPT
6 - SAE-10
7 - SAE-12
8 - SAE-16
9 - SAE-20

Combined Flow - Combines primary & secondary pump flows for faster operating speed of downstream functions.

Part Number	Replacement for	Top Port	Rear port
VG35-CFA40	348-9174-003	1”NPT	none
VG35-CFA80	348-9174-004	SAE-16	none



Split Flow - Separates primary and secondary pump flows. One valve bank operates like two.

Part Number	Replacement for	Top Port	Rear port
VG35-SFA40	348-9174-001	1”NPT	none
VG35-SFA80	348-9174-002	SAE-16	none



Main Relief Valves (MRV) Inlet - Mid-inlets

differential type, screw adjustable

Part Number	Replacement for	Description
VG35-MRV1	391-1873-003	1500PSI@50GPM 800~2000PSI screw adjustable
VG35-MRV2	391-1873-004	2500PSI@50GPM 2000~2500PSI screw adjustable
VG35-HMRV	391-1873-137	3000PSI@50GPM 2500~3500PSI screw adjustable
VG35-MRVP	391-1873-005	Main relief valve plug with seal washer

MRV and MRVP torque 75 ft. lbs. (900 in. lbs.)

VG35

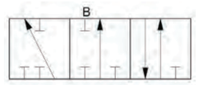
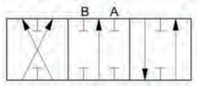
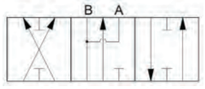
Low-boy Work Section Coding Table

VG35 - D A 7

Model

Spool Action and Function
A - Spring return
B - 3 position detent
V - Single ended air shift, metering
VA - Single ended air shift, on/off
X - Hydraulic remote control, metering

A & B Port Size:
0 – no port
1 – 3/4” split flange
2 – 1/2” NPT
3 – 3/4” NPT
4 – 1” NPT
5 – SAE-8
6 – SAE-10
7 – SAE-12
8 – SAE-16
9 – SAE-20

LO-BOY	Spool Function + Circuit	Symbol
S	Parallel Single acting Cylinder spool, B port	
D	Parallel Double acting Cylinder spool	 Spool functions symbols for: D and WHD.
M	Parallel Double acting Motor spool	 Spool functions symbols for: M and WHM.

WORK SECTION

GENERAL NO.	REPLACEMENT FOR	DESCRIPTION
VG35-DA4	348-9172-002	Double action, cyl, spring return, 1" NPT ports
VG35-DA8	348-9172-003	Double action, cyl, spring return, SAE-16 ports
VG35-DB4	348-9172-022	Double action, cyl, 3 pos detent, SAE-16 ports
VG35-DB8	348-9172-023	Double action, cyl, 3 pos detent, SAE-16 ports
VG35-SA4	348-9172-022	Single action, cyl, spring return, 1" NPT ports
VG35-SA8	348-9172-003	Single action, cyl, spring return, SAE-16 ports
VG35-MA4	348-9172-005	Double action, float, spring return, 3/4" NPT ports
VG35-MA8	348-9172-006	Double action, float, spring return, SAE-16 ports
VG35-MB4	348-9172-081	Double action, float, 3 pos detent, 1" NPT ports
VG35-MB8	348-9172-082	Double action, float, 3 pos detent, SAE-16 ports
VG35-DV4	348-9172-029	Double action, cyl, airshift, spring return, 1" NPT ports
VG35-DV8	348-9172-030	Double action, cyl, airshift, spring return, SAE-16 ports
VG35-MV4	N/A	Double action, float, airshift, spring return, 1" NPT ports
VG35-MV8	348-9172-651	Double action, float, airshift, spring return, SAE-16 ports
VG35-SV8	348-9171-016	SINGLE action, cyl, airshift, spring return, SAE-16 ports
VG35-DX4	348-9172-039	Double action, cyl, metered hydra control, spring return, 1" NPT ports
VG35-DX8	348-9172-040	Double action, cyl, metered hydra control, spring return, SAE-16 ports
VG35-MX4	348-9172-058	Double action, float, metered hydra control, spring return, 1" NPT ports
VG35-MX8	348-9172-059	Double action, float, metered hydra control, spring return, SAE-16 ports

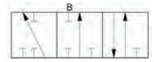
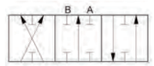
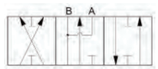
VG35

Hi-boy Work Section Coding Table

VG35 - D A 0 5 5

Model

Spool Action and Function
A - Spring return
B - 3 position detent
V - Single ended air shift, metering
VA - Single ended air shift, on/off
X - Hydraulic remote control, metering

HI-BOY	Spool Function + Circuit	Symbol
J	Parallel Single acting Cylinder spool, B port	
H	Parallel Double acting Cylinder spool	 Spool functions symbols for: D and WH.
WH	Series Double acting Cylinder spool	
L	Parallel Double acting Motor spool	 Spool functions symbols for: M and WL.
WL	Series Double acting Motor spool	

A & B Port Size:
0 – no port
1 – 3/4” split flange
2 – 1/2” NPT
3 – 3/4” NPT
4 – 1” NPT
5 – SAE-8
6 – SAE-10
7 – SAE-12
8 – SAE-16
9 – SAE-20

accessory valve Port A
0 – not machined
1 – relief valve and anti-cavitation
2 – anti-cavitation
3 – relief valve
4 – crossover relief
5 – machined with plastric Port covers (stan dard)
9 – plugged

accessory valve Port B
0 – not machined
1 – relief valve and anti-cavitation
2 – anti-cavitation
3 – relief valve
4 – crossover relief
5 – machined with plastric Port covers (stan dard)
9 – plugged

HI-BOY WORK SECTION

GENERAL NO.	REPLACEMENT FOR	DESCRIPTION
VG35-HA009		Hi-BOY, Double action, cyl, spring return, no ported
VG35-HA399	348-9172-008	Hi-BOY, Double action, cyl, spring return, 1" NPT ports
VG35-HA799	348-9172-009	Hi-BOY, Double action, cyl, spring return, SAE-16 ports
VG35-HB399	348-9172-013	Hi-BOY, Double action, cyl, 3 pos detent, 1" NPT ports
VG35-HB799	348-9172-014	Hi-BOY, Double action, cyl, 3 pos detent, SAE-16 ports
VG35-JA009		Hi-BOY, Single action, cyl, spring return, no ported
VG35-JA309	348-9171-005	Hi-BOY, Single action, cyl, spring return, 1" NPT B ports
VG35-JA709	348-9171-006	Hi-BOY, Single action, cyl, spring return, SAE-16 B ports
VG35-LA399	348-9172-011	Double action, float, spring return, 3/4" NPT ports
VG35-LA799	348-9172-012	Double action, float, spring return, SAE-16 ports
VG35-LB399	348-9172-062	Double action, float, 3 pos detent, 1" NPT ports
VG35-LB799	348-9172-063	Double action, float, 3 pos detent, SAE-16 ports
VG35-HV399	348-9172-020	Double action, cyl, airshift, spring return, 1" NPT ports
VG35-HV799	348-9172-021	Double action, cyl, airshift, spring return, SAE-16 ports
VG35-HX799	348-9172-038	Double action, cyl, metered hydra control, spring return, SAE-16 ports
VG35-LX399	348-9172-072	Double action, float, metered hydra control, spring return, 1" NPT ports
VG35-LX799	348-9172-068	Double action, float, metered hydra control, spring return, SAE-16 ports

VG35

Outlet - Coding Table

VG35 TR - 8 8

Model

TR - Tank return
PB - Power beyond
TTR - Tank return
TPB - Power beyond

1st Code – Side Port
2nd Code – Top Port

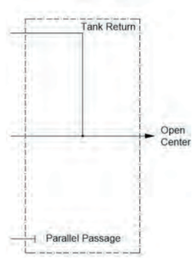
0 - no ports
1 - 3/4” split flange
2 - 1/2” NPT
3 - 3/4” NPT
4 - 1 1/4” NPT
5 - 1” NPT
6 - SAE-10
7 - SAE-12
8 - SAE-16
9 - SAE-20



Tank Return

Part Number	Replacement for	Side Port	Top Port
VG35-TR55	348-9176-001	1 1/4”NPT	1 1/4”NPT
*VG35-TR99	348-9176-002	SAE-20	SAE-20
*VG35-TTR99	348-9176-007	SAE-20	SAE-20

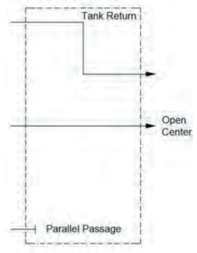
Note: * For 3500psi application



Power Beyond

Part Number	Replacement for	Side Port LP	Side Port HP	Top Port LP	Top Port HP
VG35-PB09	348-9176-005	no port	no port	SAE-20	SAE-20
VG35-PB55	348-9176-003	1-1/4”NPT	1-1/4”NPT	1-1/4”NPT	1-1/4”NPT
VG35-PB90	348-9176-004	SAE-20	SAE-20	no port	no port
VG35-PB99	348-9176-012	SAE-20	SAE-20	SAE-20	SAE-20
*VG35-TPB99	348-9176-008	SAE-20	SAE-20	SAE-20	SAE-20

Note: * For 3500psi application



VG35

Stud Kits



Part Number	Replacement for
VG35-SK-1	391-1873-053
VG35-SK-2	391-1873-054
VG35-SK-3	391-1873-055
VG35-SK-4	391-1873-056
VG35-SK-5	391-1873-057
VG35-SK-6	391-1873-058
VG35-SK-7	391-1873-059
VG35-SK-8	391-1873-060

SK studs - torque 42ft. lbs. (504in. lbs.) for 2500psi

Thru Hole Stud Kits



Part Number	Replacement for
VG35-TSK-1	391-1873-138
VG35-TSK-2	391-1873-139
VG35-TSK-3	391-1873-140
VG35-TSK-4	391-1873-141
VG35-TSK-5	391-1873-142
VG35-TSK-6	391-1873-143
VG35-TSK-7	391-1873-144
VG35-TSK-8	391-1873-145

TSK studs - torque 75ft.lbs. (900in. lbs.) for 3500psi use thru hole outlets

Work Section Spool Actuator Kits

Part Number	Replacement for	Function
VG35-K-200	391-1873-026	Spring return
VG35-K-201	391-1873-027	3 position detent
VG35-K-209	391-1873-170	Metering hyd remote control
VG35-K-213	391-1873-203	Metering air shift
VG35-K-213A		Airshift on/off

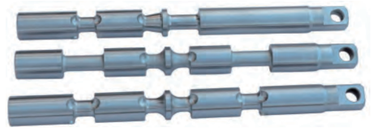


Work Section

VG35

Spools

Part Number	Replacement for	Description
VG35-SPL-11	391-1873-068	4 way/3 position, hold in neutral
VG35-SPL-13	391-1873-072	4 way/3 postion, float in neutral
VG35-SPL-15	391-1873-076	3 way/3 position, hold in neutral

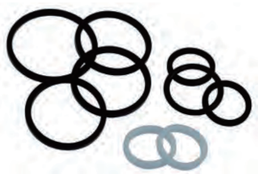


Seal Kits

Part Number	Replacement for	Kit	Kit Contains
VG35-K-11	391-1873-040	Work section assembly kit	4 section seals
VG35-K-12	391-1873-041	Work section repair kit	7 seals & 2 spool support rings



K-11



K-12

Handle Assembly- includes linkage kit.

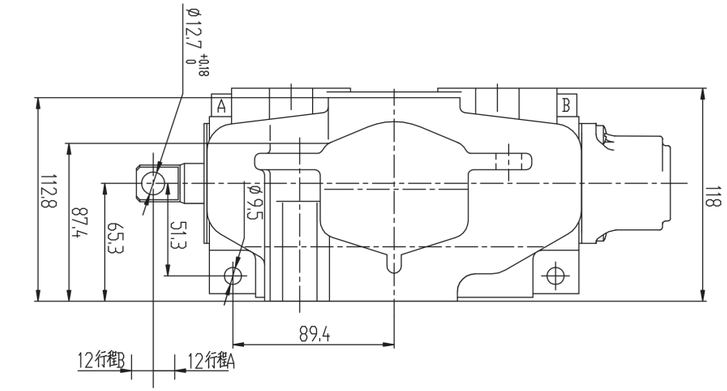
H style handles are for Hi-Boy sections with port relief valve on the handle side.

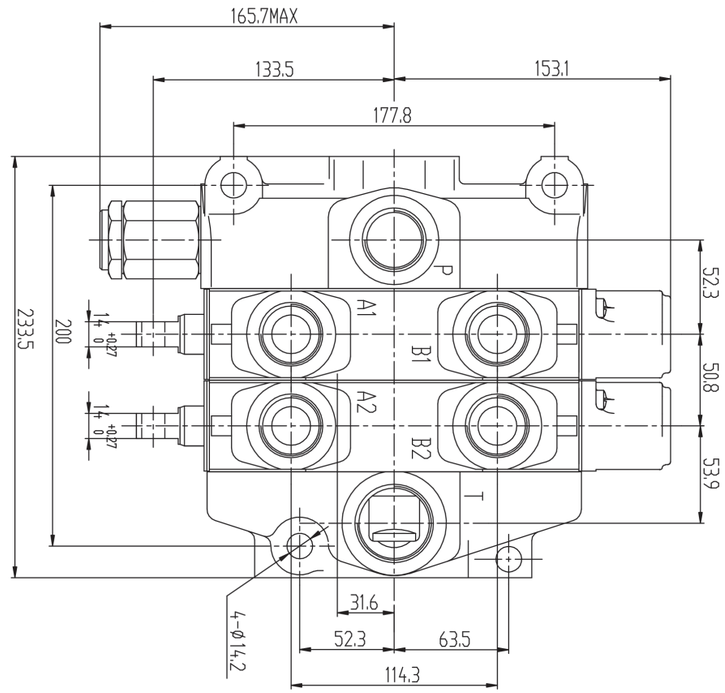
Part Number	Replacement for	Description
VG35-H-4	391-1873-097	Handle 8"
VG35-H-6	391-1873-064	Handle 6" H style for Hi-BOY
VG35-H-8	391-1873-065	Handle 8" H style for Hi-BOY
VG35-H-10	391-1873-066	Handle 10" H style for Hi-BOY

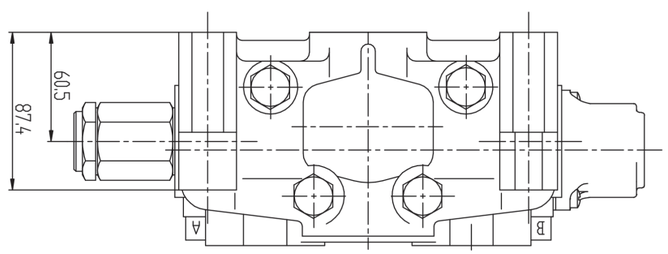


VG35

Dimensional Data







Valve Accessories

PART NUMBER	REPLACEMENT FOR	DESCRIPTION
VG20-PPRVS	355-9109-027	Daul-Pressure port relive valve, 2000PSI@1 GPM, 500-2500PSI Screw adjustable
VG-PRAVC	391-1873-006	Port relive valve with AC , 2500PSI@10GPM, 500-SOOOPSI Screw adjustable
VG-PRVS1	391-1873-344	Port relive valve , 1000PSI@10GPM, 500-1000PSI Screw adjustable
VG-PRVS2	391-1873-345	Port relive valve , 2000PSI@10GPM, 1000-2500PSI Screw adjustable
VG-PRVS3	391-1873-346	Port relive valve , 2500PSI@10GPM, 2500-4000PSI Screw adjustable
VG-AC	391-1873-010	AC, Anti-Cavitation Check Valve



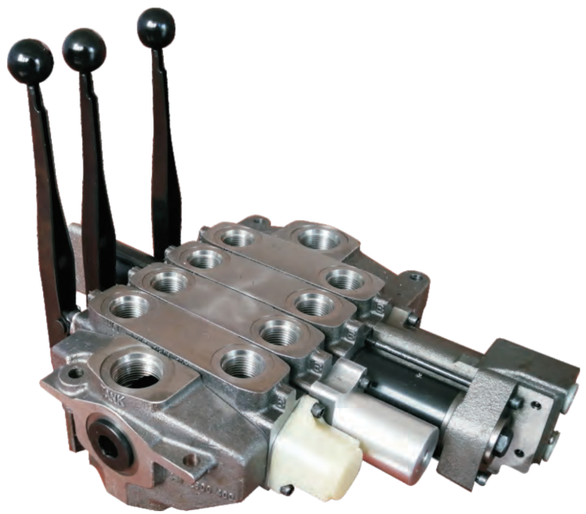
Work Port Plugs

SAE Plugs - with O - rings

PART NUMBER	REPLACEMENT FOR	SIZE
VG-DPL-10	391-1873-015	Plug 5/8" O-ring
VG-DPL-12	391-1873-016	Plug 3/4" O-ring
VG-DPL-16	391-1873-017	Plug 1" O-ring
VG-DPL-20	391-1873-018	Plug 1 1/4" O-ring

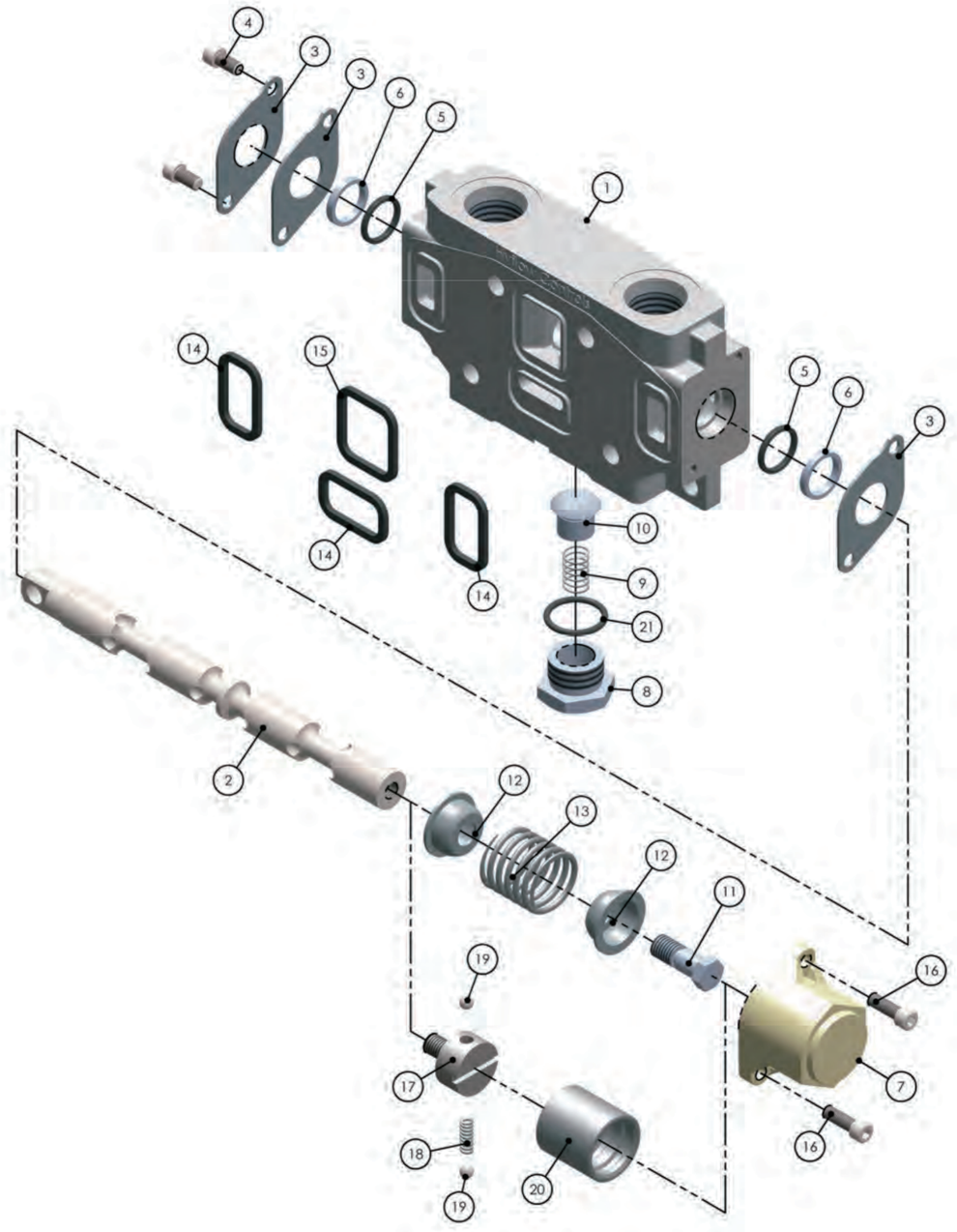
NPT Plugs

PART NUMBER	SIZE
VG-DPL-75	3/4" NPT
VG-DPL-100	1" NPT
VG-DPL-125	1 1/4" NPT
VG-DPL-50	1 1/2" NPT



VG20/35 Valves

Sectional Directional Control Valve Exploded View



VG20/35 Valves

Exploded View Parts List

Item	Part	Qty	VG20	VG35
1	Low-boy work section			
2	Spool			
3	Retainer plates	3	391-3183-001	391-3183-005
4	Retainer plate screws	2	391-2433-015	391-2433-002
5	Spool seal	2	391-2985-014	391-3887-212
6	Back up seal	2	391-3681-378	391-3681-426
7	Back cap	1	391-7000-100	391-6000-100
8	Check valve hex cap	1	391-1581-044	391-1581-044
9	Check valve spring	1	391-4581-713	391-4581-713
10	Check valve poppet	1	391-3481-069	391-3481-069
11	Stripper bolt	1	391-2432-022	391-2432-021
12	Spring guides	2	391-2642-045	391-2642-013
13	Centering spring	1	391-4581-608	391-4581-633
14	Section seals - (3 pcs)	3	391-3881-206	391-3881-200
15	Section seal - (1 pc)	1	391-3881-200	391-3881-403
16	Back cap screws	2	391-2433-020	391-2433-009
17	Detent poppet retainer	1	391-3583-008	391-3583-006
18	Detent spring	1	391-4581-130	391-4581-015
19	Detent balls	2	391-1282-010	391-1282-009
20	Detent sleeve	1	391-4283-015	391-4283-008
21	Check valve o-ring	1	391-3881-204	391-3881-204

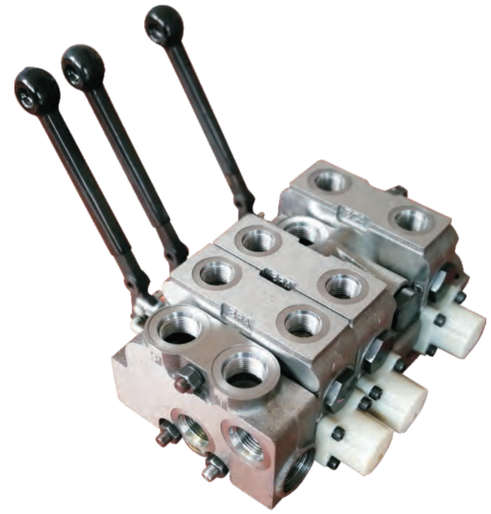


V20

Open Center Parallel Components

Operational Pressure: 3500PSI Maximum
Filtration: Minimum 33 Micron
Flow Rate: 25GPM Nominal
Refer to pressure drop charts. Flow rate is determined by the max pressure drop acceptable for the application.
Minimal spool actuating effort-----Max 50Lbs
Weight Approximant
Inlet---7lbs; Outlet---4Lbs; Work section---10lbs

Maximum exhaust core pressure:
With handle bracket or heavy duty spool seal retainer installed
Continuous operating -----500PSI
Intermittent Peak-----1000PSI
With standard spool seal retainer installed
Contagious operating-----200PSI



V20 Inlet Covers (Housing # 9398 & 8736)

Item#	Model#	Part#	End Inlet	End Outlet	Top Inlet	Top Outlet
1	V-20-LC-75	H08650029	3/4" NPT	3/4" NPT	3/4" NPT	3/4" NPT
2	V-20-LC-12	H08650029	SAE12	SAE12	SAE12	SAE12

Two ports plugs are finished loose with each cover, one is machined for 1/4” NPT or SAE 4 gauge ports

V20 Outlet Covers & Option Kits for Open Center (Housing 7770 and 8644)

Item#	Model#	Part#	Description
1	V-20-RC-10-E	23650145	SAE 10 end out, 7770 housing
2	V-20-RC-12-E	23650146	SAE12 end outlet. 7770 housing
3	V-20-RC-75-E	23650147	3/4" end outlet, 7770 housing
4	V-20-RC-12-E-MY	09650024	SAE12 end outlet. 7770 housing, machined for end power beyond
5	V-20-RC-75-E-MY	09650027	3/4" NPT end outlet. 7770 housing, machined for end power
6	V-20-RC-12-ET-12-MY	09650022	SAE12 ports,8644 housing top outlet, machined for top power beyond
7	V-20-RC-75-ET-75-MY	09650023	3/4" NPT ports,8644 housing top outlet, machined for top power beyond
8	K-20-C	09650099	Closed center Plug
9	K-20-X	09650100	Conversion Plug
10	K-20-50-Y	09650101	1/2” power beyond sleeve
11	K-20-08-Y	09650102	SAE8 power beyond sleeve
12	K-20-10-Y	09650103	SAE 10 power beyond sleeve
13	K-20-12-Y	09650104	SAE 12 power beyond sleeve

Outlet includes assembly seal kit.
Note: Please contact us if you have any question about assembly instruction and specification.

V20

V20 Mid-Inlet Sections (Housing No. 7825)

Item#	Model#	Part#	Description	Note
1	V-20-75-SF	09650002	Split Flow, 3/4” NPT Inlet ports	coming soon
2	V-20-75-CF	09650001	Combined Flow, 3/4" NPT Inlet ports	coming soon
3	V-20-12-SF	09650004	Split Flow, SAE12 Inlet ports	coming soon
4	V-20-12-CF	09650003	Combined Flow, SAE12 Inlet ports	coming soon

Housing 7825 is rated to 3500PSI. Item 5 and Item 6 are special order available

V20 Work Sections (Housing 9072)

Item#	Model#	Part#	Description
1	V-20-50-03	09650017	3way/3position 1 /2” NPT ports, Spring return to neutral, A/B blocked@ neutral
2	V-20-08-03	23650149	3way/3position SAE8Tports, Spring return to neutral, A/B blocked @ neutral
3	V-20-10-03	09650016	3way/3position SAE10 ports. Spring return to neutral, A/B blocked@ neutral
4	V-20-50-04	09650021	3way/3position 1 /2” NPT ports, Spring return to neutral, A/B blocked @ neutral
5	V-20-08-04	23650148	4way/3position SAE8T ports, Spring return to neutral, A/B blocked @ neutral
6	V-20-10-04	09650020	4way/3position SAE 10 ports, Spring return to neutral, A/B blocked @ neutral
7	V-20-50-F4	09650019	4way/3position 1 /2” NPT ports, Spring return to neutral, A/B free flow@ neutral
8	V-20-08-F4	23650051	4way/3position SAE8Tports, Spring return to neutral, A/B free flow@neutral
9	V-20-1 O-F4	09650018	4way/3position SAE10 ports, Spring return to neutral, A/B free flow @ neutral
10	V-20-50-DF4	09650017	4way/3position 1 /2” NPT ports, 3 positions detent, A/B free flow @ neutral
11	V-20-08-DF4	23650838	4way/3position SAE8 ports, 3 positions detent, A/B free flow @ neutral
12	V-20-1 O-DF4	09650009	4way/3position SAE10 ports, 3 positions detent, A/B free flow@ neutral
13	V-20-10-03-PA 1	23650963	3way/3position SAE 10 ports, Pneumatic remote, A/B blocked@ neutral
14	V-20-10-04-PA 1	23650964	4way/3position SAE 10 ports, Pneumatic remote, A/B blocked @ neutral
15	V-20-10-03-PA-ON/OFF		3way/3position SAE 10 ports, Pneumatic ON/OFF remote, A/B blocked @ neutral
16	V-20-10-04-PA-ON/OFF		4way/3position SAE10 ports, Pneumatic ON/OFF remote, A/B blocked @ neutral

Work section includes assembly seal kit.
Standard work section is finished Handle Bracket Only (HBO).
If valve work section is specified to be furnished LCHA (Less Complete Handle Assembly), the complete handle and bracket assembly will be omitted. When this is done, a spool seal retainer assembly is installed. Standard retainer assembly is limited to back pressure 200PSI. Heavy duty spool seal retainer must be installed if back pressure exceeds 200PSI but not over 1000PSI. Heavy duty seal retainer will be used for spool wiper installation.

Work Port Options for use in V20P, Parker V20P, V20T V20C and V20LS

Item#	Model#	Part#	Pressure Range and setting
1	RC-500	23650156	Relief valve, 0500~1249 set@500PSI c/p, differential poppet
2	RC-1200	09850394	Relief valve, 0500-1249 set@1200PSI c/p, differential poppet
3	RC-1700	09850395	Relief valve, 1250~1749 set@1700PSI c/p, differential poppet
4	RC-1950	09850396	Relief valve, 1750-1999 set@1950PSI c/p, differential poppet
5	RC-2550	09650397	Relief valve, 2000~2599 set@2550PSI c/p, differential poppe
6	RP20A-2500	09660975	Relief valve, 500~3500 set @ 2500PSI c/p, pilot-operated, adjustable
7	CRA-1200	09650387	Combination Relief & Anti-Cav check, 0500~1249 set@1200PSI c/p, Adj
8	CRA-1700	09650388	Combination Relief & Anti-Cav check, 1250~1749 set@1700PSI c/p, Adj
9	CRA-1950	09650389	Combination Relief & Anti-Cav check, 1750-1999 set@1950PSI c/p, Adj
10	CRA-2550	09650390	Combination Relief & Anti-Cav check, 2000-2599 set@2550PSI c/p, Adj
11	K-20-AC	09650380	Anti-Cavitation Check assembly
12	K-20-CP	09650903	Load-check assembly
13	K-WH-A	09650381	External screw adjustment option for HWH, HRC, HCRA,
14	K-20-LO		Double pilot-operated check assembly, comming soon

V20 Main Relief Options (All set at crack pressure of 1 G PM)

Item#	Model#	Part#	Description
1	WH-1200	09650417	500~1249 set @1200PSI c/p
2	WH-1700	09650418	1250~1749 set @1700PSI c/p
3	WH-1950	09650419	1750~1999 set @1950PSI c/p
4	WH-2550	09650420	2000~2599set @2550PSI c/p
5	RP51A-3000	09650421	500-3500 set @3000PSI c/p
6	K-20-NR	09650382	Relief Plug Kit (no relief option)
7	K-WH-A	09650381	External Screw adjustment option for WH relief

WH Relief valves are internal shim adjustment. HRPSIA relief are external screw adjustable

V20 Spool Positioner and Handle Options

Item#	Model#	Part#	Description	Note
1	K-20-D	09650105	3-position Detent Kit	
2	K-20-SR		Stand Spring return neutral kit	
3	K-20-3825	09653825	Pneumatic spool actuator kit, metering	
4	K-20-3625-on/off	09653625	Pneumatic spool actuator kit, ON/OFF	
5	K-20-VH-B	09650151	Vertical Handle(Black)	
6	K-20-VH-P	09650153	Vertical Handle(Plain)	
7	K-20-HH-B	09650154	Horizontal Handle(Black)	
8	K-20-HH-P	09650156	Horizontal Handle(Plain)	
9	K-20-HBO-CI	09650113	complete bracket less handle and links	
10	K-20-RET	09650107	Standard seal retainer plate	
11	K-20-RET-HD	09650108	Heavy duty seal retainer plate	coming soon
12	K-20-WIPERE	09650097	Spool wiper	coming soon
13	K-20-boot	09650112	spool boot assembly	coming soon
14	K-20-Bonnet		Standard spool action bonnet with 2 screws	

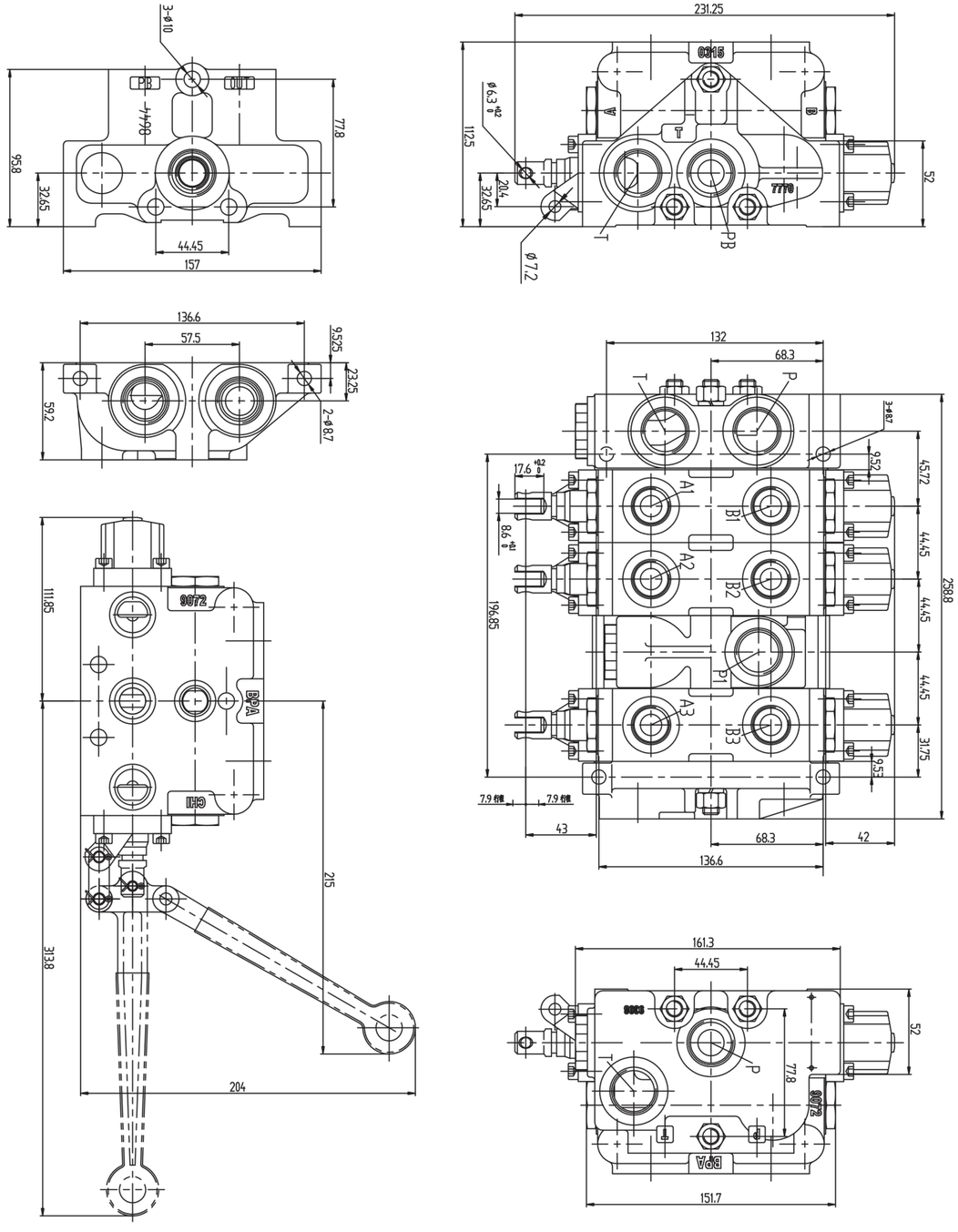
V20 Stand Section Stud Assembly and Seal kits

Item#	Model#	Part#	Description
1	K-20-1	09650087	one section stud assembly kit
2	K-20-2	09650088	one section stud assembly kit
3	K-20-3	09650089	one section stud assembly kit
4	K-20-4	09650090	one section stud assembly kit
5	K-20-5	09650091	one section stud assembly kit
6	K-20-6	09650092	one section stud assembly kit
7	K-20-7	09650093	one section stud assembly kit
8	K-20-8	09650094	one section stud assembly kit
9	K-20-9	09650095	one section stud assembly kit
10	HK-20-10	09650096	one section stud assembly kit
11	K-20-Seal-1	08340001	open center section seal kit, 4 pcs
12	K-20-Seal-2		closed center work sections, mid-inlets,utility sections, outlet covers, 4 pcs
13	K-20-Seal-3		Standard section repair seal kit. Includes assembly seal 4 pcs + 2 pcs spool seals + 2 pcs spool seal back up washers
14	K-20-Seal-4		Standard load check assembly seals,included 3 0-rings and 3 back up rings.

Stud kit doesn't include seals. Work section or outlet cover includes assembly seals
when use a 8644 right end cover add one section to assure proper stud length. Torque stud nut to 32ft.lbs

V20

Dimensional Date



VG18阀



VG18型方向控制阀适用于开式和闭式回路采用分段式结构设计，压力损失低。VG18系列专为并联、串联和串联回路而设计，并且最多可容纳九个不同类型的分段。这些分段可以随机组合，从而为各种不同的应用提供最佳回路。

技术数据

压力		额定流量	
主用	320bar/4640 psi	低流量	45 l/min
进油口	305bar/4424 psi	标准流量	82 l/min
出油口	35bar/507.5 psi		
温度		油口选项	
油温功能范围	-20至80℃（-4至176℉）	进出油口	SAE 12, 3/4" BSP
			M27 ISO 6149
		工作口	SAE 10, 1/2" BSP
			M22 ISO 6149

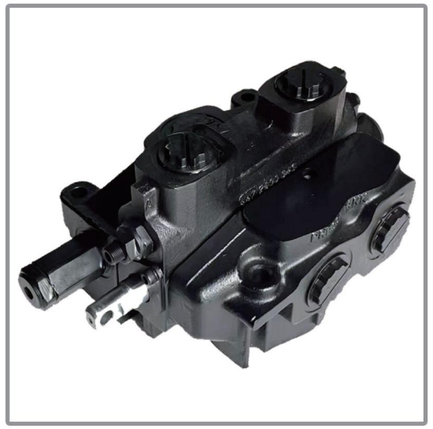
V20阀



V20多路阀设计用于许多不同的应用场合，即工程机械和工业设备。他们用来控制机械设备的油缸和马达等执行机构，例如垃圾车、吊车、高空作业平台、铲运机、钻机及石油设备等。

	压力最大值	油口连接	位置	流量	油口尺寸
泵连接	242bar	P1/P2	进油口	75l/min	1 1/16-12UN
回油连接	10bar	T1/T2	回油口	75l/min	1 1/16-12UN
工作口	280bar	A/B	工作口	75l/min	7/8-14UNF
压力输出接头					1 1/16-12UN

VA/VG 20阀



VA/VG 20阀设计用于许多不同的应用场合，即工程机械和工业设备。他们用来控制机械设备的油缸和马达等执行机构，例如装载机定量系统、铲运机、钻机及石油设备等。

技术数据

	压力最大值	油口连接	位置	流量	油口尺寸
泵连接	242bar	P1/P2	进油口	180l/min	1-5/8-12UN-2B
回油连接	10bar	T1/T2	回油口	180l/min	1-5/8-12UN-2B
工作口	280bar	A/B	工作口	180l/min	1-5/16-12UN-2B
压力输出接头					1-5/8-12UN-2B

VA/VG 35阀



VA/VG 35阀多路阀设计用于许多不同的应用场合，即工程机械和工业设备。他们用来控制机械设备的油缸和马达等执行机构，例如装载机定量系统、铲运机、钻机及石油设备等。

技术数据

	压力最大值	油口连接	位置	流量	油口尺寸
泵连接	242bar	P1/P2	进油口	265l/min	1-5/8-12UN-2B
回油连接	10bar	T1/T2	回油口	265l/min	1-5/8-12UN-2B
工作口	280bar	A/B	工作口	265l/min	1-5/16-12UN-2B
压力输出接头					1-5/8-12UN-2B

L90LS



L90LS是一种可叠加、片式、负载敏感、压力补偿多路阀。广泛用于工程机械产品如起重机、高空作业车、升降平台、叉车、挖掘机和联合收割机等。阀最高工作压力可达320 bar。可允许的泵的最大流量达200 l/min。阀具有良好的同步工作特性。能够同时响应几个操纵功能，而与负载的大小无关。

压力		进给减压阀	
泵进口	最高260/320bar*(3800/4600 psi)	调节范围	25-330bar(363-4785 psi)
工作油口	最高260/320bar*(3800/4600 psi)	内部先导压力	
回油口	最高20bar*(290 psi)	固定设定	22,35或43bar(320,508或625 psi)
*指油泵压力下的绝对冲击压力，适用于灰铸铁、球墨铸铁。		过滤	
推荐的流量		必须安装过滤器，按照ISO4406。目标污染度等级不得超过20/18/14。对于先导油路，按照ISO4406的目标污染度等级推荐值是18/16/13。	
泵进口	最大200 l/min（50 US gpm）		
工作油口，带压力补偿器	最大90**l/min（24 US gpm）		
工作油口，不带压力补偿器	最大125*l/min（33 US gpm）		
工作油口的回油	最大150 l/min（40 US gpm）		

K170LS



K170LS 是一款可堆叠式、比例式、负载感应式、压力补偿式方向控制阀，也可改装为力感应式控制特性。它专为多种不同的应用而设计，包括移动式和工业应用，并广泛应用于前端装载机、挖掘装载机、挖掘机、起重机、林业设备、金属压力机和锻锤等机械。

压力	
泵进口	最高260bar（3800psi）
工作油口	最高280bar（4000psi）
回油口	最高15bar（220psi）

推荐的流量速率	
泵连接	最大值280301/分钟(75 USgpm)
带补偿器的服务端口	最大值1709V最小值 (45美国加仑/分钟)
不带补偿器的服务端口	最大值22091/分钟(60 USgpm)
从服务端口返回	最大值280升/分钟(75 US gpm)
3)2X280 1/分钟(2X75英国加仑每分钟)，带有中间入口段	
4)取决于卷筒版本	

连接		
P1\P2	入口段	G1或15/16-12UN-2B
T1,T2	部分结束	G1或15/16-12UN-2B
A,B	入口段	G1或15/16-12UN-2B
LS,PL	卷管部分	G3/4或11/16-12UN-2B
PX,PS	入口段	G1/4或9/16-18 UNF-2B
MP	入口段	G1/4或9/16-18 UNF-2B
LSP	入口段	G1/4或9/16-18 UNF-2B
	部分结束	G3/8或9/16-18 UNF-2B
	部分结束	G1/4或9/16-18 UNF-2B
个人电脑	卷管部分	G1/4或9/16-18 UNF-2B
	部分结束	G1/4或9/16-18 UNF-2B

K220LS



K220LS是一种用于工程机械的负载敏感、压力补偿式多路换向阀，该阀的特征在于性能的稳定性，精密控制和能源效率行业领先的性能。K220LS可以与客户定制的特殊功能阀块联合使用，用来满足客户指定的功能或者其它辅助的控制功能。

压力		通流流量	
泵进口	最高330bar	泵进口	400 l/min
工作油口	最高350bar	工作油口带LS补偿器	290 l/min
回油口压力，静态	最高20bar	工作油口带AS补偿器	220 l/min
内部先导压力		工作油口不带补偿器	350 l/min
固定设定	35bar或45bar	=阀芯压降AP20bar时	

液压器
在液压系统中使用高等级清洁的矿物基油能获得很好的性能。可以使用HLP型(DIN 51524)液压油，自动变速箱A型油，发动机API CD型机油。粘度，工作范围 15-380mm²/s本样本中的技术资料是在油粘度30mm²/s和温度50℃，。使用氢化丁腈橡胶或丁腈橡胶密封得到的。

P70阀

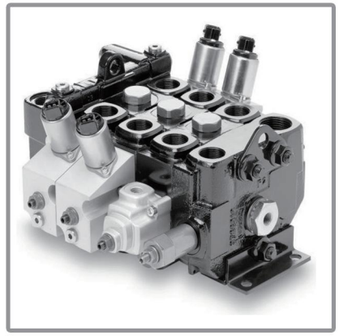
P70是一种模块化的方向控制阀，广泛应用于许多不同的场合，主要用于随车吊、小型挖掘机、小型轮式装载机和用于混凝土泵车臂架。P70有三种不同的可供货品种：P70CF，开中位，用于定量泵系统；P70CP，闭中位，用于变量泵系统；P70LS，闭中位，用于变量泵且带负载敏感信号。



压力	
进油口	最大320bar/4640psi
工作油口	最大350bar/5075psi
回油口，静态	最大20bar/290psi
流量（推荐值）	
P70CF,进油口	最大70l/min(18.5 USgpm)
P70CP,进油口	最大90l/min(23.8 USgpm)
P70LS,进油口	最大90l/min(23.8 USgpm)
P70CF,从工作油口回油	最大100l/min(26.5 USgpm)
P70CP,从工作油口回油	最大125l/min(33.0 USgpm)
P70LS,从工作油口回油	最大125l/min(33.0 USgpm)

油口	位置	G螺纹	UNF螺纹
P1,P2	进口片	G1/2	7/8-14 UNF-2B
PX	进口片，IU	G1/4	9/16-18 UNF-2B
T2	进口片，I	G1/2	7/8-14 UNF-2B
T2	进口片，IU	G3/4	1-1/16-12 UNF-2B
UL	进口片	G1/4	9/16-18 UNF-2B
P,EF	进口片，PRI	G3/4	—
X	进口片,PRI	G1/4	—
M1,M2,M3	中间进口片	G1/2	7/8-124 UNF-2B
工作油口	工作片		
A和B	工作片	G1/2	7/8-14 UNF-2B
PC	出口片	G1/4	9/16-18 UNF-2B
T1,T3	出口片	G1/2	7/8-14 UNF-2B
T4	出口片	G1/4	9/16-18 UNF-2B
TP	出口片	G1/4	9/16-18 UNF-2B
PS	出口片	G1/4	9/16-18 UNF-2B
PF	出口片	G1/4	9/16-18 UNF-2B

F130阀

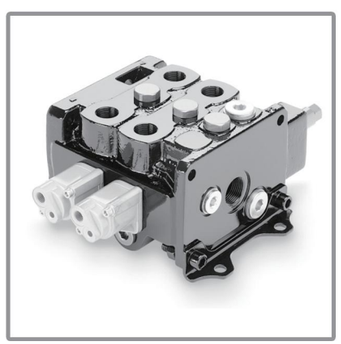


F130是一种模块化的方向控制阀，广泛应用于许多不同的场合，主要用于起重机及其他建筑机械、林业机械、垃圾车、钻机、叉车等。F130有三种不同的可供货品种：F130CF，开中位，用于定量泵系统；F130CP，闭中位，用于变量泵系统；F130LS，闭中位，用于变量泵且带负载敏感信号。

压力	
进油口	最大320bar/4640psi
工作油口	最大350bar/5075psi
回油口，静态	最大20bar/290psi
流量（推荐值）	
F130CF,进油口	最大110l/min(29.1 USgpm)
F150CP,进油口	最大150l/min(39.6 USgpm)
F150LS,进油口	最大150l/min(39.6 USgpm)
从工作油口回油	最大175l/min(46.2 USgpm)
推荐的最大流量取决于选择的阀芯类型	

油口	位置	G螺纹	UNF螺纹
P1,P2	进口片	G3/4	1-1/16-12UNF-2B
T2	进口片	G1	1-5/16-12UNF-2B
M1	中间进口片	G3/4	1-1/16-12UNF-2B
M3	中间进口片	G3/4	1-1/16-12UNF-2B
T1	出口片	G3/4	1-1/16-12UNF-2B
TP,PS	出口片	G1/4	9/16-18UNF-2B
T3	出口片	G3/4	1-1/16-12UNF-2B
工作油口	工作片	G3/4	1-1/16-12UNF-2B

H170CF阀



H170CF是一种整体式方向阀，阀块能够用法兰连接组成一个阀组，用于单泵或多泵工作。内部并联连接的阀块，可根据需要用法兰连接在一起，实现块间的并联或串联连接。H170CF带有泵卸荷功能，能量损失小，系统可靠性高。该阀能应用于许多不同种类的设备，从挖掘装载机、垃圾车、集装箱卡车、叉车到露天和地下采煤机。H170CF阀用法兰安装方便，有许多各种不同的可选功能和标准辅件，是一种非常通用的阀。这种阀有助于设备制造者优化他们的液压系统，达到最优的操作和控制特性。

压力	
进油口	最大250bar/3625psi
工作油口	最大280bar/4060psi
回油压力，静态	最大20bar/290psi
流量（推荐值）	
进油口	最大170l/min(44.9 USgpm)
从工作油口回油	最大330l/min(87.2 USgpm)
取决于您选择的阀芯类型	

油口	位置	G螺纹	UNF螺纹
P1	进口片	G1	1 5/16-12 UNF-2B
P2	进口片	G3/4	1 1/16-12 UNF-2B
T1	出口片	G1	1 5/16-12 UNF-2B
T2	进口片	G3/4	1 1/16-12 UNF-2B
T3	出口片	G3/4	1 1/16-12 UNF-2B
工作油口	工作片	G3/4	1 1/16-12 UNF-2B
工作油口	工作片	G1	1 5/16-12 UNF-2B
阀芯执行器		G1/4	9/16-18 UNF-2B
测压口		G1/4	9/16-18 UNF-2B

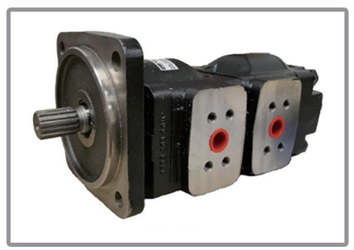
PGP640系列



联锁泵体专利设计；12齿齿轮，锡青铜平衡侧板；可实现双联泵，三联泵连接；双联泵，三联泵可以有公共进油口；连续工作压力高达275bar；产品运行符合OEM应用条件，确保最高容积效率；压力平衡侧板设计确保高效率；与早期产品以及其他同类产品相比噪音低；大功率通轴驱动性能；可装有各种集成阀广泛应用于动力转向、动力控制、风扇驱动以及液压系统中。

泵排量	300	350	400	450	500	550	600	650	700	800	900	1000
排量(cm³/rev)	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	80.0	90.0	100.00
最大连续压力(bar)	310	310	310	310	310	310	290	260	250	250	250	250
最小转速@最大出口压力(rpm)	500	500	500	500	500	500	500	500	500	500	500	500
最大转速@进口和最大出口压力(rpm)	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000
大概重量(kg)	20.6	20.6	21.2	21.2	22.0	22.0	22.6	22.6	23.3	25.0	25.5	25.5

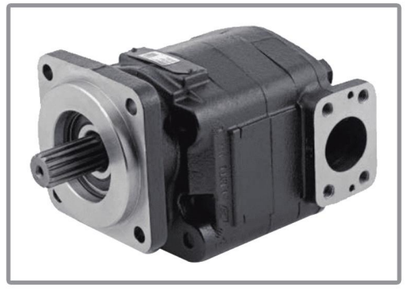
PGP620系列



联锁泵体专利设计；12 齿齿轮，锡青铜平衡侧板；可实现双联泵，三联泵连接；双联泵，三联泵可以有公共进油口；连续工作压力高达 275bar；产品运行符合 OEM 应用条件，确保最高容积效率；压力平衡侧板设计确保高效率；与早期产品以及其他同类产品相比噪音低；大功率通轴驱动性能；可装有各种集成阀广泛应用于动力转向、动力控制、风扇驱动以及液压系统中。

泵排量	0160	0190	0230	0260	0290	0330	0360	0370	0410	0440	0500	0520
排量(cm³/rev)	16.0	19.0	23.0	26.0	29.0	33.0	36.0	37.0	41.0	44.0	50.0	52.0
最大连续压力(bar)	275	275	275	275	275	275	250	250	250	250	250	250
最小转速@最大出口压力(rpm)	500	500	500	500	500	500	500	500	500	500	500	500
最大转速@进口和最大出口压力(rpm)	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3000	3000
大概重量(kg)	12.0	12.1	12.2	12.6	12.6	12.7	12.8	12.9	13.0	13.1	13.3	13.4

PGP365系列

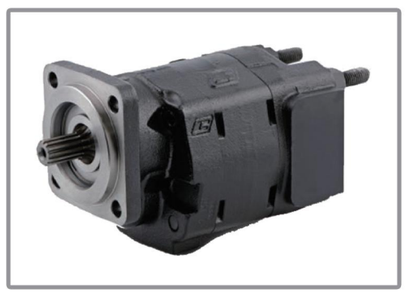


PGP365系列采用三段式铸铁结构在严苛的运行环境下，依然高效耐用。低摩擦衬套在重载应用中提供卓越的强度。平衡式止推片优化泵的效率。采用尺寸最大的滑动轴承适用于高压环境，并拥有超长的使用寿命。

性能与参数

参数	07	10	12	15	17	20	22	25
排量(cm^3/rev)	44.3	59.0	73.8	88.5	103.3	118.0	132.8	147.5
最大连续压力(bar)	241	241	241	241	241	241	224	207
最大转速(rpm)	2400	2400	2400	2400	2400	2400	2400	2400
大概重量(kg)	24.3	25.4	26.5	26.5	28.8	30	31.1	32.2

PGP350系列

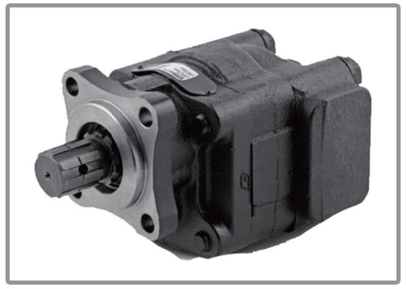


PGP350系列采用三段式铸铁结构在严苛的运行环境下，依然高效耐用。低摩擦衬套在重载应用中提供卓越的强度。平衡式止推片优化泵的效率。采用尺寸最大的滑动轴承适用于高压环境，并拥有超长的使用寿命。

性能与参数

参数	05	07	10	12	15	17	20	22	25
排量(cm^3/rev)	20.9	31.3	41.8	52.2	62.7	73.1	83.6	94.0	104.5
最大连续压力(bar)	241	241	241	241	241	241	224	224	224
最大转速(rpm)	2400	2400	2400	2400	2400	2400	2400	2400	2400
大概重量(kg)	21.8	22.4	23.1	23.8	24.5	25.2	25.9	26.5	27.2

PGP330系列

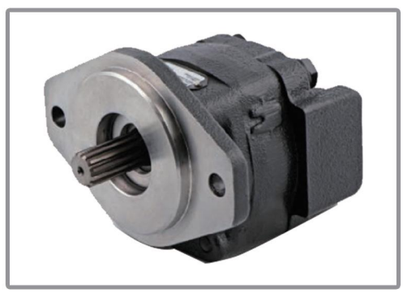


PGP330系列采用三段式铸铁结构在严苛的运行环境下，依然高效耐用。低摩擦衬套在重载应用中提供卓越的强度。平衡式止推片优化泵的效率。采用尺寸最大的滑动轴承适用于高压环境，并拥有超长的使用寿命。

性能与参数

参数	05	07	10	12	15	17	20
排量(cm^3/rev)	16.1	24.4	32.3	40.4	48.4	56.5	64.6
最大连续压力(bar)	241	241	241	241	241	224	224
最大转速(rpm)	3000	3000	3000	3000	3000	3000	3000
大概重量(kg)	15.2	15.8	16.3	16.9	17.5	18.1	18.7

PGP315系列



PGP315系列采用三段式铸铁结构在严苛的运行环境下，依然高效耐用。低摩擦衬套在重载应用中提供卓越的强度。平衡式止推片优化泵的效率。采用尺寸最大的滑动轴承适用于高压环境，并拥有超长的使用寿命。

性能与参数

参数	05	07	10	12	15	17	20
排量(cm^3/rev)	10.2	15.2	20.3	25.4	30.5	35.6	40.6
最大连续压力(bar)	241	241	241	241	241	228	228
最大转速(rpm)	3000	3000	3000	3000	3000	3000	3000
大概重量(kg)	7.2	7.7	8.2	8.6	9.1	9.5	10.0

P75/P76系列



P75/P76系列齿轮泵为高压大排量齿轮泵。密封件、侧板、轴承等关键件均为派克原装零件，采用了3段式铸铁壳体结构、耐磨损涂层的青铜侧板，加之特有的二次密封技术，使产品在恶劣的工作环境中具有起动扭矩低、强度好、效率高、寿命长，甚至在高温和低粘度工况下均优化了性能，尤其适应于重载应用场合。

性能与参数

齿宽代号	排量（cm³/r）	齿宽（in.）	最高压力（psi/bar）	工作转速（rpm）
07	50.4	3/4	2500/172	2400
10	67.2	1		
12	84.0	1 1/4		
15	100.8	1 1/2		
17	117.3	1 3/4		
20	134.4	2		
22	151.2	2 1/4	2500/172	
25	168.0	2 1/2		
27	184.8	2 3/4	2500/172	
30	201.6	3		

P50/P51系列



P50/P51系列齿轮泵为三段式铸铁结构高压齿轮泵。采用了压力分区、耐磨损涂层侧板，更好的保证了泵良好的容积效率；特有的开槽二次密封技术，与主轴不易产生抱死的同时，有效的防止了泵的外漏；油封、密封件为高品质液压件，很好的保证了泵的密封性能。本产品在恶劣的工作环境中具有起动扭矩低、强度好、效率高、寿命长，甚至在高温和低粘度工况下均优化了性能，尤其适应于重载应用场合。

性能与参数

齿宽代号	排量（cm³/r）	齿宽（in.）	最高压力（psi/bar）	工作转速（rpm）
05	20.9	1/2	2500/172	2400
07	31.3	3/4		
10	41.8	1		
12	52.2	1 1/4		
15	62.7	1 1/2		
17	73.1	1 3/4	2000/138	
20	83.6	2		
22	94.0	2 1/4		
25	104.5	2 1/2		

P30/P31系列



P30/P31系列齿轮泵为三段式铸铁结构高压齿轮泵。采用了压力分区、耐磨损涂层侧板，更好的保证了泵良好的容积效率；特有的开槽二次密封技术，与主轴不易产生抱死的同时，有效的防止了泵的外漏；油封、密封件为高品质液压件，很好的保证了泵的密封性能。本产品在恶劣的工作环境中具有起动扭矩低、强度好、效率高、寿命长，甚至在高温和低粘度工况下均优化了性能，尤其适应于重载应用场合。

性能与参数

齿宽代号	排量（cm³/r）	齿宽（in.）	最高压力（psi/bar）	工作转速（rpm）
05	16.1	1/2	2500/172	2400
07	24.2	3/4		
10	32.3	1		
12	40.4	1 1/4		
15	48.4	1 1/2		
17	56.5	1 3/4	2250/155	
20	64.6	2		

P20/P25系列



P20/P25系列齿轮泵是工程车辆理想的动力源。该泵为三段式铸铁结构，采用压力分区耐磨损涂层青铜侧板及特有的二次密封技术，多种轴伸和安装形式可满足多种需求，从而保证了泵的一流性能，并且密封件、侧板等关键件均采用进口件，以及高强度的铸铁中间体保证了泵的可靠性。

性能与参数

齿宽代号	排量（cm³/r）	齿宽（in.）	最高压力（psi/bar）	工作转速（rpm）
05	16.1	1/2	3000/207	2400
07	24.2	3/4		
10	32.3	1		
12	40.4	1 1/4		
15	48.4	1 1/2		
17	56.5	1 3/4	2500/172	
20	64.6	2		