Features

- Original Shear-Seal[®] technology
- Air or hydraulic integrated actuator
- 2- and 3-position
- Superior shifting performance
- High velocity flow
- Compact design
- Corrosion resistant materials
- Position indication

Applications

- Land-based & offshore oil drilling controls BOP control units
- Steel mills
- Shipboard hydraulic control systems
- Refineries and chemical processing plants



General Specifications*

- Main Valve

Working Pressure: 1-1/2" Size:	Hydraulic up to 3,000 or 6,000 psi (206 bar or 413 bar) Air up to 4,000 psi (276 bar) Hydraulic up to 1,500 psi (103 bar) Air up to 1,000 psi (69 bar)
Back Pressure:	Must not exceed 250 psi (17.2) bar at return port for satisfactory operation
Proof Pressure:	1-1/2 times working pressure except at return port
Burst Pressure:	2-1/2 times working pressure except at return port (3,000 psi [206 bar])
Pressure Drop (all Valves):	See supplemental guide for detailed information
Porting:	1/4", 3/8", 1/2", 3/4", 1", & 1-1/2" NPT Standardd (SAE J1926 Option)
Media Temperature Range:	-40° to +250°F (-40° to +121°C)
Handle Detent:	All valves have 3-position detents for manual shift to Center position
Panel Mounting:	Standard for 1/4"- 1/2" valves Refer to sales drawings for 1" & 1-1/2" valves
Wetted Materials: Body: Shaft: Rotor & Seals: Standard O-Rings:	Al-Ni bronze Stainless steel 400 series stainless steel Buna N

- Pilot Actuator

External: Housing: Hardware: Handle & Detent Disc:	Al-Ni Bronze Stainless Steel Stainless Steel
Working Pressure: Air: Hydraulic:	80 psi (5.2 bar) minimum 250 psi (17.2 bar) maximum 500 psi (34 bar) minimum 1,500 psi (103 bar) maximum
Porting:	1/4"- 18 NPT
Media Temperature Range:	-40° to +250°F (-40° to +121°C
Speed of Operation:	Greater than or equal to 1/2 second to avoid damage.
Materials: Cylinder: End Plate:	Air -Amalga (Std.) -Stainless steel (Opt.) Hydraulic - Stainless steel (Std.) Stainless steel 1/4", 3/8", 1/2"
Hardware:	Al-Ni Bronze 3/4" 1" & 1-1/2" Stainless steel

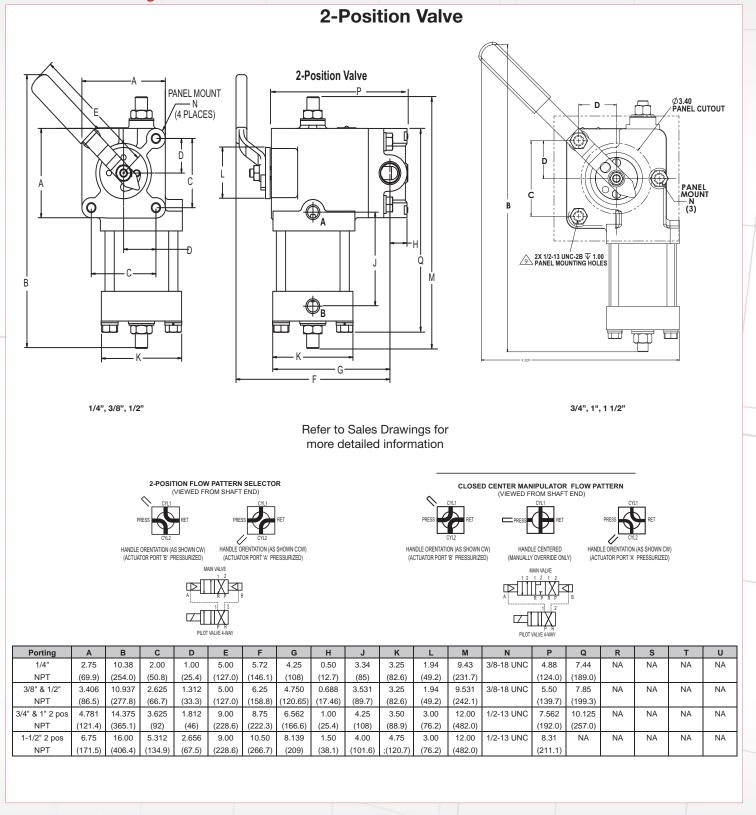


* See product configurator for additional options.

Barksdale

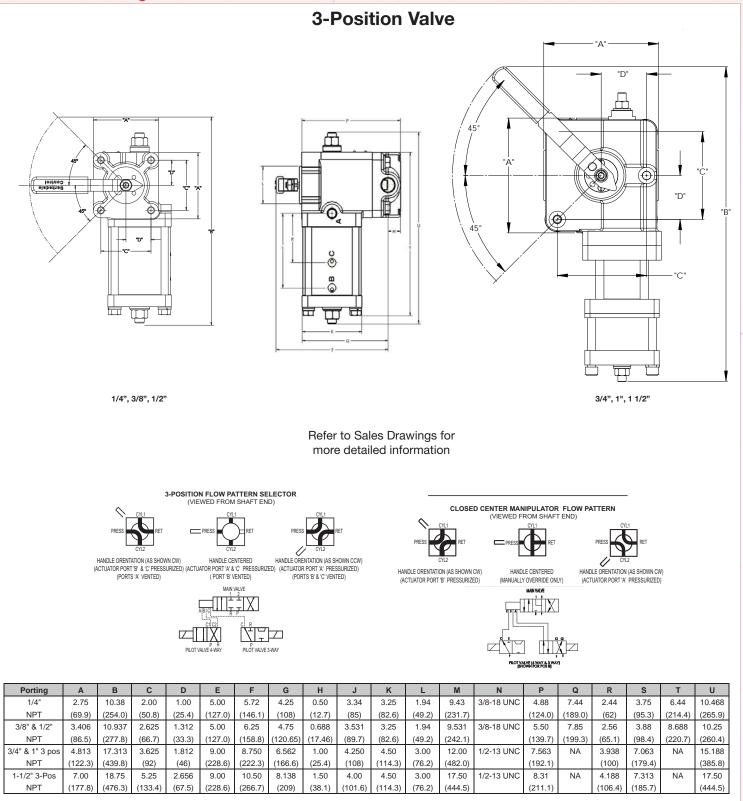
CRANE Barksdale, Inc./Barksdale GmbH A Subsidiary of Crane Co.

Technical Drawings





Technical Drawings



Barksdale CONTROL PRODUCTS CRANE Barksdale, Inc/Barksdale GmbH

Flow Capacity

	Flow Capacity (Approx.) Service: Oil and Lubricated Water									Approx. Shipping	Approx. Shipping
	Main Valve	20 ft/sec.	40 ft/sec).	60 ft/sec.	Min.	Flow	Cv		Weight	Weight
	Port Size	gpm (l/min.)	gpm (l/mir	n.)	gpm (l/min.)	Passa	ge Dia.	Facto	or	2 Pos.	3 Pos.
A14/A92 &	1/4"	3 (11)	6 (23)		9 (34)	1/	4"	0.95	5	30	32
A376	3/8" & 1/2"	9 (34)	19 (72)		28 (106)	7/*	16"	3.20)	35	37
Series	3/4" & 1"	25 (95)	50 (189))	75 (284)	23/	/32"	9.20)	50	52
Valve	1-1/2"	57 (217)	114 (433	3)	171 (650)	1-3	/32"	21.0	0	129	134
A20/A562	1/4"	3 (11)	6 (23)		9 (34)	1/	/4"	0.95	5	30	32
Series	1/2"	5 (19)	10 (36)		15 (57)	5/*	16"	1.60)	35	37
Valve	1"	9 (34)	19 (72)		28 (106)	7/*	16"	3.20)	50	52
H Hydraulic	cylinder									tional O-ring	matorial
eries II ——									-Z	xx See supple	mental guide
	(206 bar), 4-way se	elector or diverter						Or	-z		mental guide
· ·	(206 bar), 4-way clo		Press	sure	Range ²				otions B F	s Position Indicator	mental guide
14 3,000 psi 92 3,000 psi manipula 18 3,000 psi	(206 bar), 4-way clo	osed center orting, 4-way	Press	3,00 or hy	0 psi lubricated wate ydraulic oil, 2,000 ps			-	Dtions B F C A	5	valve to
14 3,000 psi manipula 92 3,000 psi manipula 18 3,000 psi selector, o 376 3,000 psi	(206 bar), 4-way clo tor (206 bar), straight p	orting, 4-way tor	3	3,00 or hy (14, 9	0 psi lubricated wate ydraulic oil, 2,000 ps 92 & 376 Series) 0 psi lubricated wate	si air er		-	Dtions B F C A b H 4	S Position Indicator a x 2 converter Illows 3-position be actuated with 2 500 psi working	valve to 2 inlets pressure
143,000 psi923,000 psimanipula183,000 psiselector,3763,000 psi	(206 bar), 4-way clo tor (206 bar), straight p diverter or manipulat (206 bar), 4-way su	osed center orting, 4-way tor b-plate mount nter manipulator		3,00 or hy (14, 9 6,00 or hy	0 psi lubricated wate ydraulic oil, 2,000 ps 92 & 376 Series)	si air er		-	Dtions B F C A D H 4 M 5	S Position Indicator x 2 converter Nows 3-position be actuated with 2 500 psi working 5000 psi working	valve to 2 inlets pressure pressure
14 3,000 psi manipula 92 3,000 psi manipula 18 3,000 psi selector, o 376 3,000 psi selector/c 20 6,000 psi 562 6,000 psi	(206 bar), 4-way clo tor (206 bar), straight p diverter or manipulat (206 bar), 4-way su diverter or closed cer (412 bar), 4-way se (412 bar), 4-way clo	osed center orting, 4-way tor Ib-plate mount nter manipulator dector or diverter	3	3,00 or hy (14, 9 6,00 or hy	0 psi lubricated wate ydraulic oil, 2,000 ps 92 & 376 Series) 10 psi lubricated wate ydraulic oil, 2,000 ps	si air er		-	DTIONS B F C 3 A b b H 4 M 5 D C	S Position Indicator a x 2 converter Illows 3-position be actuated with 2 500 psi working	valve to 2 inlets pressure pressure errn
14 3,000 psi manipula 92 3,000 psi manipula 18 3,000 psi selector, q 376 3,000 psi selector/q 20 6,000 psi	(206 bar), 4-way clo tor (206 bar), straight p diverter or manipulat (206 bar), 4-way su diverter or closed cer (412 bar), 4-way se (412 bar), 4-way clo	osed center orting, 4-way tor Ib-plate mount nter manipulator dector or diverter	6	3,00 or hy (14, 1 6,00 or hy (20 &	0 psi lubricated wate ydraulic oil, 2,000 ps 92 & 376 Series) 0 psi lubricated wate ydraulic oil, 2,000 ps & 562 series)	si air er		- - - - - - - -	B F C A D C H 4 M 5 D C MS S	S Position Indicator x 2 converter Illows 3-position a actuated with 2 500 psi working 000 psi working Diverter flow patter SAE J1926 Porting Stainless Steel Cy	valve to 2 inlets pressure pressure ern
14 3,000 psi manipula 92 3,000 psi manipula 18 3,000 psi selector/c 376 3,000 psi selector/c 20 6,000 psi manipula	(206 bar), 4-way clo tor (206 bar), straight p diverter or manipulat (206 bar), 4-way su diverter or closed cer (412 bar), 4-way se (412 bar), 4-way clo	osed center orting, 4-way tor Ib-plate mount nter manipulator dector or diverter	3 6 Work	3,00 or hy (14, 1 6,00 or hy (20 &	0 psi lubricated wate ydraulic oil, 2,000 ps 92 & 376 Series) 10 psi lubricated wate ydraulic oil, 2,000 ps & 562 series) Media	si air er si air		- - - - - - - -	B F C A D C H 4 M 5 D C MS S	S Position Indicator a x 2 converter Nows 3-position be actuated with 2 500 psi working 000 psi working Diverter flow patter GAE J1926 Porting	valve to 2 inlets pressure pressure ern
14 3,000 psi manipula 92 3,000 psi manipula 18 3,000 psi selector, q 376 3,000 psi selector/q 20 6,000 psi manipula 562 6,000 psi manipula 574 Size	(206 bar), 4-way clo tor (206 bar), straight p diverter or manipulat (206 bar), 4-way su diverter or closed cer (412 bar), 4-way se (412 bar), 4-way clo	osed center orting, 4-way tor Ib-plate mount nter manipulator dector or diverter	3 6 Work W	3,00 or hy (14, 1 6,00 or hy (20 8	0 psi lubricated wate ydraulic oil, 2,000 ps 92 & 376 Series) 10 psi lubricated wate ydraulic oil, 2,000 ps & 562 series) Media	si air er si air		- - - - - - - - - - - - - - - - - - -	B F C A D C H 4 M 5 D C MS S	S Position Indicator x 2 converter Nows 3-position be actuated with 2 500 psi working 5,000 psi working 0iverter flow patter SAE J1926 Porting Stainless Steel Cy Air)	valve to 2 inlets pressure pressure ern
14 3,000 psi manipula 92 3,000 psi manipula 18 3,000 psi selector/c 376 3,000 psi selector/c 20 6,000 psi manipula 562 6,000 psi manipula 562 1 1/4" NPT	(206 bar), 4-way clo tor (206 bar), straight p diverter or manipulat (206 bar), 4-way su diverter or closed cer (412 bar), 4-way se (412 bar), 4-way clo tor	osed center orting, 4-way tor b-plate mount nter manipulator elector or diverter osed center	3 6 Work	3,00 or hy (14, 1 6,00 or hy (20 8	0 psi lubricated wate ydraulic oil, 2,000 ps 92 & 376 Series) 10 psi lubricated wate ydraulic oil, 2,000 ps & 562 series) Media	si air er si air			B F C A D C M 5 D C MS S SS (/	S Position Indicator x 2 converter Nows 3-position be actuated with 2 500 psi working 5,000 psi working 0iverter flow patter SAE J1926 Porting Stainless Steel Cy Air)	valve to 2 inlets pressure pressure errn 9 /linder
14 3,000 psi manipula 92 3,000 psi selector, q 376 3,000 psi selector/q 20 6,000 psi manipula 562 6,000 psi manipula ort Size	(206 bar), 4-way clo tor (206 bar), straight p diverter or manipulat (206 bar), 4-way su diverter or closed cer (412 bar), 4-way se (412 bar), 4-way clo tor (SAE Option)	osed center orting, 4-way tor b-plate mount nter manipulator elector or diverter osed center	3 6 Work W	3,00 or hy (14, 1 6,00 or hy (20 8	0 psi lubricated wate ydraulic oil, 2,000 ps 92 & 376 Series) 10 psi lubricated wate ydraulic oil, 2,000 ps & 562 series) Media	si air er si air			Ditions B F C A b H 4 M 5 D C MS S SS (/ Position 2 2-	S Position Indicator 3 x 2 converter Mows 3-position be actuated with 2 500 psi working 0000 psi working 000	valve to 2 inlets pressure pressure ern 9 /linder
14 3,000 psi manipula 92 3,000 psi manipula 18 3,000 psi selector/o 376 3,000 psi selector/o 20 6,000 psi manipula 562 6,000 psi manipula ort Size	(206 bar), 4-way clo tor (206 bar), straight p diverter or manipulat (206 bar), 4-way su diverter or closed cei (412 bar), 4-way se (412 bar), 4-way clo tor (SAE Option) (14 and 92 series or	osed center orting, 4-way tor b-plate mount nter manipulator dector or diverter osed center	3 6 Work W A	3,00 or hy (14, 6,00 or hy (20 & ting I Lubr Air o	0 psi lubricated wate ydraulic oil, 2,000 ps 92 & 376 Series) 10 psi lubricated wate ydraulic oil, 2,000 ps & 562 series) Media ricated water or hydro pr other gasses	si air er si air			Ditions B F C A b H 4 M 5 D C MS S SS (/ Position 2 2-	S Position Indicator x 2 converter Illows 3-position be actuated with 2 500 psi working 000 ps	valve to 2 inlets pressure pressure ern 9 /linder
14 3,000 psi manipula 92 3,000 psi manipula 18 3,000 psi selector/c 376 3,000 psi selector/c 20 6,000 psi manipula 562 6,000 psi manipula 562 1,000 psi manipula 1 1/4" NPT 2 3/8" NPT 3 1/2" NPT 4 3/4" NPT	(206 bar), 4-way clo tor (206 bar), straight p diverter or manipulat (206 bar), 4-way su diverter or closed cer (412 bar), 4-way se (412 bar), 4-way clo tor (SAE Option) (14 and 92 series or (SAE Option)	osed center orting, 4-way tor b-plate mount nter manipulator dector or diverter osed center	3 6 Work W	3,00 or hy (14, 6,00 or hy (20 & ting I Lubr Air o	0 psi lubricated wate ydraulic oil, 2,000 ps 92 & 376 Series) 10 psi lubricated wate ydraulic oil, 2,000 ps & 562 series) Media ricated water or hydro pr other gasses	si air er si air			Diions B F C A b H 4 M 5 D C MS S SS (/ Position 2 2- 3 3-	S Position Indicator x 2 converter Illows 3-position be actuated with 2 500 psi working 000 ps	valve to 2 inlets pressure pressure ern 9 /linder

Port Location -

R	Regular side porting
S	Straight (Bottom) porting (up to 1/2")
М	Manifold porting (376 series only)
Р	Panel mount with side porting
	-

 C
 Closed center

 O
 Open center (tandem center)

 Closed center manipulator
 Standard on 92 and 562 series

 Optional on 376 Series in closed center only
 Not available on 14 and 20 Series

or hydraulic, 1,000 psi (69 bar) max in air

4

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